



Conference Program Details
4th International Conference on Structural Engineering Research
(iCSER-2025) 26-28 Nov 2025
Western Sydney University, Parramatta South Campus, Australia



WESTERN SYDNEY
UNIVERSITY



**4th International Conference on Structural Engineering
Research, Sydney, 2025 (iCSER- 2025) 26-28 Nov 2025
Sydney, Australia**

8th GCSTMR World Congress

Western Sydney University, Parramatta South Campus, Sydney, Australia

[Corner of Victoria Road and James Ruse Drive (enter via Victoria Road), Parramatta]

Organised by:

School of Engineering, Design and Built Environment

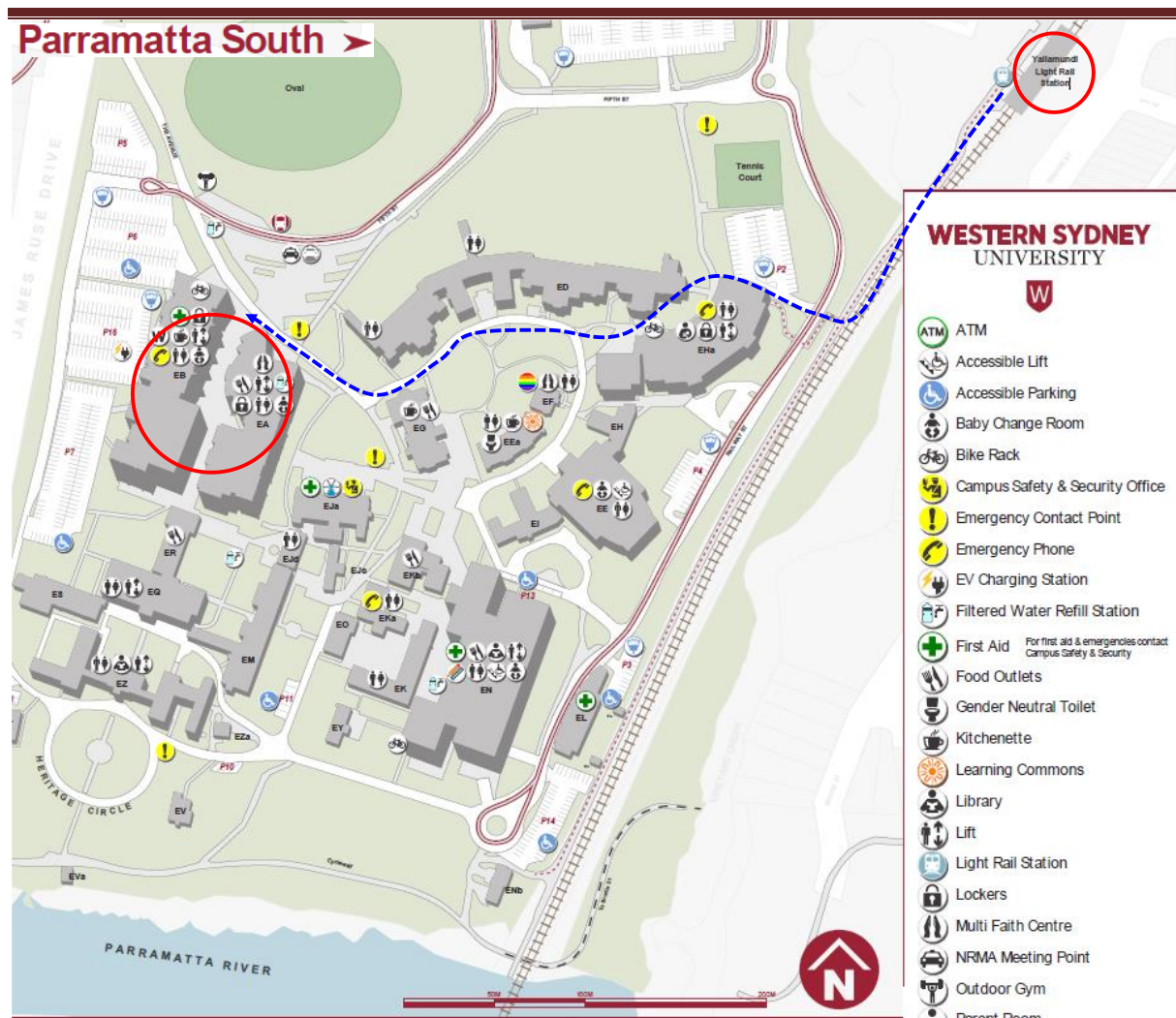
Western Sydney University

and

Global Circle for Scientific, Technological and Management Research (GCSTMR)

We thank our generous sponsors:





Conference venue: Western Sydney University Parramatta South campus, Building EA/EB. It is 8 minutes' walk from Yallamundi light rail station, which can be reached via light rail from Parramatta Square light rail station (near Parramatta train station).

https://www.westernsydney.edu.au/content/dam/digital/pdf/campus-maps/Parramatta_Campus_General.pdf

Conference Committee

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- Professor Olivia Mirza, Western Sydney University, Australia

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 - Associate Professor Siti Aminah Bt. Hj. Osman, Universiti Kebangsaan Malaysia, Malaysia
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 - Mr Pierre-Yves Souesme, Sixense, Australia
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 - Ms Nicole Waterman, Laing O'Rourke, Australia

Keynote Speakers

Keynote Speaker: Professor Brian Uy

University of New South Wales, Australia

Talk Title: Structural Engineering Research in Steel-Concrete Composite Construction

Biography of the Speaker: Brian Uy is Scientia Professor of Structural Engineering in the School of Civil and Environmental Engineering at the University of New South Wales. Brian has delivered over 100 plenary/keynote/invited lectures and has been involved in research in steel and composite structures for over 30 years. He has co-authored over 700 publications including over 300 refereed journal articles. Brian is Chairman of the Standards Australia Committee BD-032 on Composite Building Structures and BD-090-06 on Steel and Composite Bridge Structures. He is currently President-Elect and Vice President of the Institution of Structural Engineers (IStructE) and Vice President of the International Association of Bridge and Structural Engineering (IABSE). Brian is an elected Fellow of the Australian Academy of Technological Sciences and Engineering, Engineers Australia, Institution of Structural Engineers, Institution of Civil Engineers, American Society of Civil Engineers, Structural Engineering Institute and the International Association of Bridge and Structural Engineers. More detail about the speaker is available on <https://www.unsw.edu.au/staff/brian-uy>



Keynote Speaker: Professor Rebecca Gravina

The University of Queensland, Australia

Talk Title: Sustainable Concrete Pavements Containing Recycled Waste Materials – A Case Study

Biography of the Speaker: Professor Rebecca Gravina is Professor and TMR Chair of Structural Engineering, in the School of Civil Engineering at the University of Queensland in Brisbane, Australia. Professor Gravina has over 25 years of experience in academia and consulting engineering. Her research field concerns the long-term performance and durability of reinforced concrete (RC) and prestressed concrete (PC) structures, sustainability of infrastructure, rehabilitation of existing structures with Fibre Reinforced Polymers (FRP), recycled materials in concrete, and engineering education. Professor Gravina is the Editor in Chief of the Australian Journal of Civil Engineering, Executive Director of the Australasian Certification Authority for Reinforcing and Structural Steels (ACRS), a Past-President of ASCE Australia Section and Secretary of the International Institute for FRP in Construction (IIFC).



Keynote Speaker: Diana Zagora

Director Civil Engineering Infrastructure at Transport for NSW, Australia

Talk Title: Focusing on Resilience on the Road Network

Biography of the Speaker: Diana is a skilled transport professional with tertiary qualifications in Civil Engineering and Urban Planning, with over twenty-five years' experience in transport planning, stakeholder engagement, civil engineering, land use planning, urban design and project management.

Diana joins us from Transport for NSW where she is the Director Resilience in the Natural Disaster and Resilience team. Diana was instrumental in the development of the NSW Freight and Ports Plan, a supporting plan to Future Transport 2056. Diana is a Chartered Engineer, Austroads Bridge Taskforce Member, Engineers Australia Sydney Committee Vice President and Roads Australia Fellow.



Keynote Speaker: Todd Clarke

Principal Engineer, BarChip Inc

Talk Title: Collaborative Innovation in Sustainable Materials: Enhancing Adoption of Macro Synthetic Fibre Reinforced Concrete for Resilient Infrastructure.

Biography of the Speaker: Todd has worked in the concrete construction industry for the last 13 years and is currently undertaking a PhD at Victoria University. In his role as Principal Engineer at BarChip Inc, he oversees BarChip's global engineering support team, as well as instigating and collaborating on research partnerships with various International and Australian Universities. Todd is a member on several industry & scientific committees such as the Australian Tunnelling Society NSW Chapter, fib Task Groups 1.8 & 4.1 and the ITAtech Activity Group on Low Carbon Linings. He has been involved in many fibre reinforced concrete projects in Australia since 2014, facilitating the implementation of macro synthetic fibre reinforcement in this application and driving its adoption nationwide. Todd is passionate about generating research that has real industry impact, driven by collaboration between industry and universities.



Keynote Speaker: Professor Dr Siti Aminah Osman (S. A. Osman)
Universiti Kebangsaan Malaysia (UKM), Malaysia

Talk Title: Experimental Analysis on Beam-Column Joint under Quasi-static Lateral Cyclic Loading

Biography of the Speaker: Dr Siti Aminah Osman (S. A. Osman) graduated from Universiti Teknologi Malaysia in 1992 with BEng (Hons) in Civil Engineering, MSc in Structural Engineering from University of Bradford, United Kingdom (1995) and PhD in Civil & Structural Engineering from Universiti Kebangsaan Malaysia (2006). She is an Associate Professor in the Department of Civil Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia (UKM), and actively involved in research on structural dynamics for earthquake and wind loading, industrial building systems (IBS), and engineering education. She has over 25 years of experience in teaching, training, research, publication, and administration. She has published over 150 papers related to her work, both internationally and locally. Currently, she serves as the Deputy Dean of Networking and Income Generation for the faculty and is actively involved in activities with industries and communities, which aligns with her portfolio. She has received numerous research grants and has successfully supervised many local and foreign Master and PhD students. She also serves as a member of many international and national professional committees. She is also a Professional Technologist (Ts) registered with the Malaysia Board of Technologists (MBOT), a member of the Board of Engineers Malaysia (BEM), and a member of the Society of Engineering Education Malaysia (SEEM).



Day 1– Wednesday 26 Nov 2025

Time	Event	Remark
5:30 – 7:30 pm	Registration, Refreshments, and Networking (Foyer Building EA Parramatta South Campus)	Delegates will be welcomed by: Conference Chairs: Prof. Chin Leo A/Prof. Fidelis Mashiri A/Prof. Qinghua Zeng Conference Secretaries: Dr Pan Hu Dr Md Kamrul Hassan Dr Christophe Camille Dr Xuefeng Dong Conference Management Coordinator: Ms Jenis Islam

Day 2 – Thursday 27 November 2025

Time	Session
8:00 – 9:00 am	Registration Parramatta South Campus, Foyer Building EA and EB.G.18 Desk in charge: Ms Jenis Islam
9:00 – 10:00 am	Conference Opening (Zoom ID: 2804663551) Room EA.2.13 (LT02), Parramatta South Campus Moderator: Prof. Chin Leo, Chair, iGCMGE Acknowledgment of Indigenous owners of the land Speech: Prof. Ataur Rahman, Chair GCSTMR Speech: Prof. Chin Leo, Chair (iGCMGE-2025) Speech: A/Prof. Fidelis Mashiri, Chair (iCSER-2025) Speech: A/Prof. Qinghua Zeng, Chair (iCMEMS-2025) Speech: Prof. Yang Xiang Acting Dean, School of Engineering, Design and Built Environment Speech: Nicole Waterman President, Engineers Australia (Sydney Division) Housekeeping: Prof. Ataur Rahman
Morning Session	Chair: Prof Olivia Mirza (Room EB.G.37) (Hybrid Presentation: Physical and online, Zoom Link: https://uws.zoom.us/j/2804663551)
10:00 – 10:30 am	Keynote Speaker 1: Topic: Structural Engineering Research in Steel-Concrete Composite Construction. Prof Brian Uy , University of New South Wales, Australia
10:30 – 11:00 am	Morning Tea (Room PS-EB.G.32 and EB.G.33) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)
11:00 – 11:30 am	Keynote Speaker 2: Sustainable Concrete Pavements Containing Recycled Waste Materials – A Case Study. Prof Rebecca Gravina , The University of Queensland, Australia
11:30 – 11:45 am	Paper No-12: A case study on design and application of non-prestressed RPC-GFRP beams Ashkan Shakeri; Alex M. Remennikov; M. Neaz Sheikh
11:45 – 12:00 pm	Paper No-76: Flood Resilient Buildings: Challenges and opportunities in building industry in New South Wales. Pinto, Maria
12:00 – 12:15 pm	Paper No-5: Study of A New Type of RC Shear Wall Structure with Replaceable Components. Huanjun Jiang, Haozuo Wang

12:15 – 12:30 pm	Paper No-21: Optimal Fiber Distribution Design for Stress Minimization Carol Lee Chalermisin, Motohiro Sato	
12:30 – 1:30 pm	Lunch (Room PS-EB.G.32 and EB.G.33)	
Afternoon Session 1	Chair: Prof Brian Uy (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)	
1:30 – 2:00 pm	Keynote Speaker 3: Focusing on Resilience on the Road Network. Diana Zagora , Director Civil Engineering Infrastructure at Transport for NSW, Australia	
2:00 – 2:15 pm	Invited Paper 1: Evolution of Materials Properties and Residual Stress in Large Scale Aluminium Structures Printed via Additive Friction Stir Deposition. Vladislav Yakubov, Wlla Abadd, James Hughes, Evren Yasa, Michail Karpenko, Gwenaelle Proust, Prof. Anna M. Paradowska	
2:15 – 2:30 pm	Paper No-23: Experimental Study on CFST Stub Columns with Glass Powder and Rubber Fibre Concrete: A Path Toward Sustainable Infrastructure Zobaer Saleheen, Tatheer Zahra, Sabrina Fawzia	
2:30 – 2:45 pm	Paper No-32: Numerical study of CFST columns under uniaxial and biaxial eccentric loading Md Kamrul Hassan, Md Mofizul Islam, Bulbul Ahmed, Mohamed Ghannam, Swapan Saha	
2:45 – 3:00 pm	Paper No-24: Temperature-Dependent Reliability Assessment of Ballasted Reinforced Concrete Railway Bridges. Reza Allahvirdizadeh, Andreas Andersson, Raid Karoum	
3:00 – 3:30 pm	Afternoon Tea break (Room PS-EB.G.32 and EB.G.33)	
Afternoon Session 2	Chair: Dr Kamrul Hassan (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551) Parallel session-1	Chair: Dr Christophe Camille (Room EB.G.32) (Hybrid Presentation: Zoom ID: https://uws.zoom.us/j/86534903579) Parallel session-2
3:30 – 3:45 pm	Paper No-34: Strength Characteristics of Mortar Using Gypsum Ceiling Board Powder as Partial Replacement of Cement Md. Naimul Haque, Eftyar Ahmed, Mahin Afroz Sinjan, Md. Shorful Hasan and Md Kamrul Hassan	Paper No-64: Understanding the Tension Stiffening Mechanism of Ultra-High-Performance Fiber Reinforced Concrete Under Sustained Tensile Load. Mohammad Momeen Ul Islam, Abu Hasan, Md. Masud Rana
3:45 – 4:00 pm	Paper No-35: Evaluation of Marshall Characteristics of Bituminous Mixes with Reclaimed Asphalt Pavement and Crumb Rubber Abdullah Al Ahad, M. A. Sayeed	Paper No-33: Performance of FRP Strengthened Damaged Steel Tubular T-Joints
4:00 – 4:15 pm	Paper No-56: Investigating the Use of Dolomite Powder as Partial Cement Replacement in Sandcrete Blocks.	Paper No-54: Investigation On Structural Performance of Deficient Steel Tubular Joint Strengthening By CFRP Under Compressive & Seismic Loading For Disaster Resilience Structure

	Sajjad Hossain , Gourab Mondal, Ismail Hossain, Md Mohebbullah, Dipta, Iftekhar Alam; Manjur, Kazi Abu	
4:15 – 4:30 pm	Paper No-68: Effect of Natural Fibers on Mechanical and Physical Properties of Recycled Aggregate Concrete: A Review Shams Jalal Oishi, Mahabuba Mokter Jhumur, Nishatee Binte Shahid	Paper No-4: Lightweight structural health monitoring of concrete components using arduino and piezoelectric sensors. Danish Yousuf Wani , Jiang Huanjun
4:30 – 4:45 pm	Paper No-69: Mechanical Properties of Brick Aggregate Concrete using Human Hair Fiber. Abu Mohammad Jubary Joyti , Md. Zakaria Habib	Paper No-25: Moment resistance of gusseted internal eaves connection Joseph Kafuko , Morgan Dundu
4:45 – 5:00 pm	Paper No-74: Comparative Study on the Effectiveness of Various Steel Bracing Configurations in Mitigating the Soft Story Effect in Multi-Story Buildings. Mostafa Mahmud , Md Faiyaz Shahriar, Saifur Rahman Ruman	Paper No-26: Moment resistance of gusseted internal eaves connection. Joseph Kafuko , Morgan Dundu
5:00 – 5:15 pm	Paper No-39: Mechanical Performance of Bio-Composites Using Waste Sugarcane Fibres. Rakibul Hasan , Wahid Ferdous, Jayantha Epaarachchi and Allan Manalo	Paper No-27: Proposed Design Formula for Stub CFDSCT Columns. Rodney Mahlangu , Morgan Dundu
5:15 – 5:30 pm	Paper No-53: Mechanical Behavior of Jute Fiber Reinforced Concrete Under Impact Load. Md. Ashaduzzaman Rakib, Md. Saifur Rahman Ruman , Abhishek Sarkar, Mahmudur Rahman	Paper No-29: Ductility Requirements for Stub Concrete-Filled Double-Skin Circular Tube Columns. Rodney Mahlangu , Morgan Dundu
CONFERENCE DINNER (Only for the CONFERENCE DINNER ticket holders) <ul style="list-style-type: none"> Time: 7:00-10:00 pm (Only for the Conference Dinner Ticket Holders) Venue: Novotel Sydney Parramatta (map), 350 Church St, Parramatta NSW 2150 – Prince Alfred Square light rail station) Welcomed by Professor Kevin Dunn, Deputy Vice-Chancellor, Western Sydney University		

Day 3 – Friday 28 Nov 202

Time	Session
8:00 – 9:00 am	Registration, Parramatta South Campus (Room PS-EB.G.18)
Morning Session 1	Chair: Prof Fidelis Mashiri (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)
9:00 – 9:30 am	Keynote Speaker 3: Collaborative Innovation in Sustainable Materials: Enhancing Adoption of Macro Synthetic Fibre Reinforced Concrete for Resilient Infrastructure. Todd Clarke , Principal Engineer, BarChip Inc
9:30 – 10:00 am	Keynote Speaker 4: Experimental Analysis on Beam-Column Joint under Quasi-static Lateral Cyclic Loading. Professor Dr Siti Aminah Osman , Universiti Kebangsaan Malaysia (UKM), Malaysia
10:00 – 10:15 am	Paper No-22: Strain Development in Prefabricated CFST Columns with Bolt-Coupler Grout Connection. Md Ashraful Habib , Md Kamrul Hassan, Swapan Saha,
10:15 – 10:30 am	Paper No-31: Numerical model development for predicting the temperature profiles of services penetrating fire-resisting barriers using FDS and FEA. Thomas Foster , Md Kamrul Hassan, Md Ashraful Habib, Swapan Saha (W
10:30 – 11:00 am	Morning Tea (Room PS-EB.G.32 and EB.G.33)
Morning Session 2	Chair: Prof Huajin Jiang (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)
11:00 – 11:15 am	Paper No-36: Fire Resistance Behaviour of Newly Developed Lightweight Composite Material for Wall Panel Application. Md Rayhan Hasnat , Md Kamrul Hassan, Swapan Saha
11:15 – 11:30 am	Paper No-38: Mechanical properties of energy-efficient Core Material used in Non-combustible ACP Cladding Panels Md Rayhan Hasnat , Md Kamrul Hassan, Swapan Saha
11:30 – 11:45 pm	Paper No-78: Uses of Waste Plastic Replacing Fine Aggregate in Concrete Design. Md Gahangir Alam , Ee Loon Tan, Tosin Famakinwa
11:45 – 12:00 pm	Paper No-72: Experimental Study on the Effectiveness of Short and Long-Length Recycled PET Fibres in Concrete Muhammad Ali , Nway Thinzar Kyaw, Olivia Mirza, Christophe Camille, Fidelis Mashiri
12:00 – 12:15 pm	Paper No-10: Full-Scale Monitoring of Form Pressure While Casting Bottom-up with Self-Compacting Concrete. Yaser Gamil
12:15 – 12:30 pm	Paper No-48. Properties of geopolymer concrete containing high volume of landfill wastes. Zahedul Islam , Wahid Ferdous and Allan Manalo

12:30 – 1:30 pm	Lunch (Room PS-EB.G.32 and EB.G.33)
Afternoon Session 1	Chair: Dr Christophe Camille (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)
1:30 – 1:45 pm	Paper No-82: Performance-Based Artificial Intelligence / Machine Learning Monitoring and Controls for Creating Resilient and Sustainable Structures Kalpna Jadhav
1:45 – 2:00 pm	Paper No-77: Numerical Modelling of Mechanical Properties of PCM-Incorporated Concrete For Fire Applications. K.A.D.Y.T. Kahandawa Arachchi , Chi Bach Do, Olivia Mirza, Fidelis Mashiri and Sameera Pathirana
2:00 – 2:15 pm	Paper No-65: Fire-Induced Thermal Gradient Analysis for Optimizing PVC Conduit Placement in RC Slabs. Imam Hossain Chowdhury , Shakwat Karim Maher, Md. Rabiul Alam, Nure Yeazdani, Md Kamrul Hassan
2:15 – 2:30 pm	Paper No-55: Numerical Modelling of Square Thin Plate Using Finite Difference Method. Md. Mahbur Rahman, Md. Abu Sayed , Md. Riyad Hossain, Md. Sanjidur Rahman
2:30 – 2:45 pm	Paper No-49: A Comparative Study on Column-Beam Dimensions and Reinforcement Percentages across Different Seismic Zones in Bangladesh. Bhuiyan, M.A. Bashar*; Amin, Md Al ; Khan, Sifat; Chowdhury, Mohaymen-UI-Islam ; Ali, Md. Arafat
2:45 – 3:00 pm	Paper No-58: Performance Comparison of AAC Block and Conventional Masonry Infill Walls in RC Frames Under Static and Dynamic Loads. Meftahul Ahsan, Ahnaf Tahmid, Sk. Rakibul Islam
3:00 – 3:30 pm	Afternoon Tea (Room EB.G.32 and EB.G.33)
Afternoon Session 2	Chair: Prof Morgan Dundu (Room EB.G.37) (Hybrid Presentation: Zoom Link: https://uws.zoom.us/j/2804663551)
3:30 – 3:45 pm	Paper No-15: Strengthening Methods for Bridge Structures: A Critical Review of Current Practices and Recommendations for Future Implementation. Saman Karimi , Olivia Mirza, Fidelis Mashiri, Christophe Camille, and Anil Khattri
3:45 – 4:00 pm	Paper No-19: A Review of the Global Brick, Concrete and Plastic Waste Composition in Construction and Demolition Waste Management. Aderemi Muhammed Aderogba , Olivia Mirza, Christophe Camille and Brian G Falzon
4:00 – 4:15 pm	Paper No-73: A Review on the Robustness of Modular Buildings. Dasuni Sembanayake , Olivia Mirza, Fidelis Mashiri, Christophe Camille
4:15 – 4:30 pm	Paper No-80: Noggings in Timber-Frame Buildings: Review of Structural Performance and Design Considerations of Noggings. Nazanin Salehi , Fidelis Mashiri, Benoit Gilbert
4:30 – 4:45 pm	Paper No-52: Effectiveness of Strengthening Techniques of RC Column Under Different Failure Condition.

	Md. Mohaimanul Islam Shovon, Md. Saifur Rahman Ruman , Mostafa Mahmud, Akib Mohammad Sunny, Md. Zahed Hossain
4:45 – 5:00 pm	Paper No-57: Evaluation of Seismic Performance and Pre-Stressed Concrete Retrofitting of Horizontally Irregular Ten-Story RC Residential Buildings in Bangladesh. Ansura Tabassum Boishakhi, Sumaya Tabassum , Rahita Azmir Tishita
5:00 – 5:15 pm	Paper No-60: Reliability Assessment and Improvement of the Visual Rating Method for Preliminary Seismic Evaluation in Dhaka with Reference to ASCE 41-17 and FEMA RVS Methods. Sadia Rahman Badhan , Farhanur Rahman
5:30 – 6:30 pm	Conference Closing and Awards (Room EA.2.13 (LT02)) Building EA, Room PS-EA.2.13 (LT02) Zoom Link/ID: http://uws.zoom.us/j/2804663551

Conference Information

Conference Date:

26-28 November 2025

Venue

Buildings EA and EB, Parramatta South Campus, Western Sydney University ([map](#)),
Corner of James Ruse Drive and Victoria Road, Parramatta, NSW 2117, Australia.

Transport Information

WSU Parramatta South Campus is about 2 km away from Parramatta Station. You can get the campus by one of the following transport options:

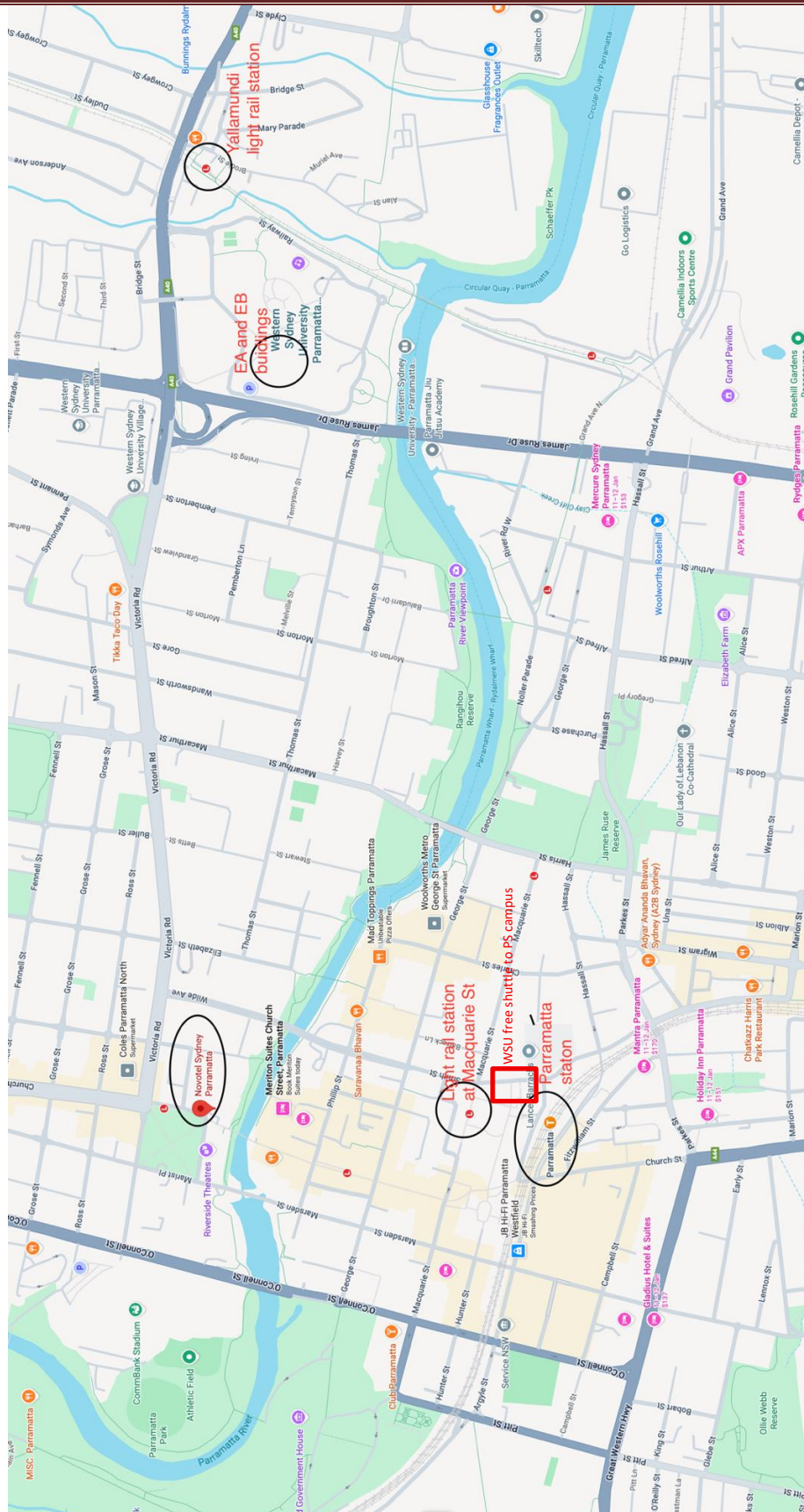
1. **Light rail (L4)** from Macquarie Square station ([map](#)) to Yallamundi station ([map](#)).
2. **Bus (501, 521, 523, 524, 525)** from Parramatta station (Stand A3, [map](#)) to the stop of Victoria Road before Railway Street ([map](#)).
3. **WSU free shuttle bus** from Parramatta City Campus on Smith St ([map](#)) to Parramatta South Campus in front of EA/EB buildings ([map](#)).
4. **By car**, drive in through Railway Street and then Fifth Street to WSU Parramatta South Campus (car parking, [map](#)).

Car parking

We have arranged some daily car parking permits at WSU Parramatta South Campus, which will be provided to keynote and invited speakers. For other participants, we may provide car parking permits as needed, or you can park on streets for free (e.g., [Irving St](#), [Tennyson St](#)).

Contact Person:

Conference Secretary, Associate Professor Fidelis Mashiri (0458458929), Dr Md Kamrul Hassan (0424350257)



Map of Parramatta Station, WSU Parramatta South Campus and Novotel Parramatta Sydney

