

DETAILED SESSION PLAN

FRIDAY, 15 AUGUST 2025

SESSION 1A

| | |
|---------------|--|
| Theme | Carbon Assessment in the Built Environment |
| Session Chair | A/Prof. Sepani Senaratne |
| Venue/Time | Room A - 01.00 PM - 03.00 PM |
| Virtual | Breakout Room - Session A |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 01.00 PM - 01.15 PM | S17045: Global Research Trends in Carbon Capture and Utilization Technologies for Cement Production: A Bibliometric Analysis <i>H.H.A.P Hemantha, R.A.B.U.N. Perera, D.N.L.S. Uduwage</i> |
| 01.15 PM - 01.30 PM | S17052: Embodied Carbon Variability in Indian High-Rise Residential Buildings: A Case-Based Assessment <i>K.G. Akshatha, Sivakumar Palaniappan, M.K. Pradeep Kumar Rao</i> |
| 01.30 PM - 01.45 PM | S17062: Carbon Financing in Construction: Review of Benefits and Barriers <i>D.S.I. Wijayawardena, K.A.T.O. Ranadewa</i> |
| 01.45 PM - 02.00 PM | S17074: Learning from Nature: Biomimicry-Inspired Building Design for Carbon Reduction in Urban Living <i>R.V.A.D. Rahubadda, Udayangani Kulatunga, A.P. Rathnasinghe</i> |
| 02.00 PM - 02.15 PM | S17075: Project Data Responsibilities for Carbon Assessment in Sri Lankan Construction Industry <i>R.M.T.D. Rajapaksha, S.D. Gallage</i> |
| 02.15 PM - 02.30 PM | T17125: The Applicability of Carbon Emission Estimation with BIM Environment: Sri Lankan Context <i>D.A.M.V. Perera, C. Allis, B.K.C. Perera, A. Lokuge</i> |
| 02.30 PM - 03.00 PM | Q&A |

Session Coordinator: Ch. QS Dilshan Akalanka

FRIDAY, 15 AUGUST 2025

SESSION 1B (Hybrid)

| | |
|---------------|--|
| Theme | Circular Economy Integration in Construction |
| Session Chair | Dr. Gayani Karunasena |
| Venue/Time | Room B - 01.00 PM - 03.00 PM |
| Virtual | Breakout Room - Session B |

| Time | Paper ID, Title and Author(s) |
|---------------------|--|
| 01.00 PM - 01.15 PM | S17011: Buildings Designed for Systemic Circularity: A Comprehensive Review of Methodological Taxonomies <i>Prince Antwi-Afari, Daniel Oteng, S. Thomas Ng, Frank Ato Ghansah, Zhikang Bao</i> |
| 01.15 PM - 01.30 PM | S17129: Exploring Circular Building Material: Transforming Industrial and Agricultural Waste into 3D Printable Construction Material <i>T. Takale, V. Anagal</i> |
| 01.30 PM - 01.45 PM | S17130: Mapping Circularity Parameters: A Literature Review of Policy Planning in the Built Environment <i>R. Deshmukh, A. Garud, V. Anagal, S. Karve, M. Siriwardena, A. Manewa</i> |
| 01.45 PM - 02.00 PM | S17131: Investigating Business Models for Circular Economy Integration in Construction Sector <i>S. Shah, A. Garud, V. Anagal, S. Karve, M. Siriwardena, A. Manewa</i> |
| 02.00 PM - 02.15 PM | S17133: Blockchain Enabled Circular Economy Integration in the Construction Industry: A Systematic Literature Review and Bibliometric Analysis <i>S. Deshmukh, S. Karve</i> |
| 02.15 PM - 02.30 PM | S17134: From Policy Presence to Enforceability: Evaluating Water Circularity in the Indian Construction Frameworks <i>N. Sakhardande, S. Karve, V. Anagal, A. Garud, A. Manewa, M. Siriwardena</i> |
| 02.30 PM - 03.00 PM | Q&A |

Session Coordinator: Mr. Lakshitha Bandaranayake

FRIDAY, 15 AUGUST 2025

SESSION 1C

| | |
|----------------------|---|
| Theme | Enabling Digital Transformation in Sri Lankan Construction |
| Session Chair | Ch. QS Indunil Senevirathne |
| Venue/Time | Room C - 01.00 PM - 03.00 PM |
| Virtual | Breakout Room - Session C |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 01.00 PM - 01.15 PM | S17048: Addressing Data Management Challenges in Sri Lankan Construction Industry through Blockchain Integration <i>W.M.N.D. Wijesundara, M. Thayaparan, M.D.D. Costa</i> |
| 01.15 PM - 01.30 PM | S17068: Exploring The Potential of Blockchain Technology Adoption in the Sri Lankan Construction Industry: Opportunities and Barriers to Implementation <i>D.W.J.W. Bandara, P.L.I. Wimalaratne, Udayangani Kulathunga, A. Wijayasiri</i> |
| 01.30 PM - 01.45 PM | S17092: Integrating BIM into Business Models of Consultancy Firms: Barriers and Enablers <i>R.L. Samaraweera, D.N. Abeynayake, S. Sivanraj</i> |
| 01.45 PM - 02.00 PM | S17105: Barriers to Adopting Digital Twin Technology for Contract Administration in Sri Lankan Construction Sector <i>M.K.L.I.C. Fernando, V. Lingasabeshan, P.L.I. Wimalaratne</i> |
| 02.00 PM - 02.15 PM | S17109: Applicability of Artificial Intelligence Models for Selection of ADR Methods to the Settlement of Contractor-Related Variation Disputes in Building Construction Projects in Sri Lanka <i>Y.M.W.H.M.R.R.L.J.B. Kiridana, M.D.T.E. Abenayake</i> |
| 02.15 PM - 02.30 PM | S17115: Barriers and Solutions to Adopting Digital Twin in Sri Lankan Construction <i>H.T.T.A. Indunil, R.P.H.S. Bandara, P.H.Y. Buddhini</i> |
| 02.30 PM - 03.00 PM | Q&A |

Session Coordinator: Ms. Dasuni Kodithuwakku

FRIDAY, 15 AUGUST 2025

SESSION 1D

| | |
|---------------|---|
| Theme | Technology-Driven Innovations for Safety and Productivity in Construction |
| Session Chair | Prof. Nayanthara De Silva |
| Venue/Time | Room D - 01.00 PM - 03.00 PM |
| Virtual | Breakout Room - Session D |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 01.00 PM - 01.15 PM | S17019: Artificial Intelligence-Driven Systems for Enhancing Worker Safety Monitoring in Construction Environments: A Comprehensive Review <i>J.A.U.S. Jayakody, P.R.H.N.G. Thilakarathna</i> |
| 01.15 PM - 01.30 PM | S17033: Detection of Mobile Phone Use by Labourers on Construction Sites using YOLOv11-s <i>D.N.L.S. Uduwage, S. Sivanraj, K.G.A.S. Waidyasekara, R.K. Shiwakoti, M.Tripathi</i> |
| 01.30 PM - 01.45 PM | S17034: Comparison of Yolo Algorithms for PPE Compliance Monitoring at Construction Sites <i>S. Sivanraj, D.N.L.S. Uduwage, M. Tripathi</i> |
| 01.45 PM - 02.00 PM | S17054: Examining Health and Safety Management among Foreign Contractors in Sri Lanka: Gaps, Barriers, and Improvement Strategies <i>B.G. Wijayarathna, C. Allis, Y.K. Delpachitra</i> |
| 02.00 PM - 02.15 PM | S17110: Enhancing Labour Productivity in the Sri Lankan Construction Industry through Computer Vision <i>E.M.K.K. Ekanayaka, B.A.I. Eranga</i> |
| 02.15 PM - 02.30 PM | T17122: IOT-Based Real-Time Monitoring Systems to Enhance Workers' Safety in High-Rise Construction Projects in Sri Lanka <i>S.S. Jayasundara, B.A.I. Eranga</i> |
| 02.30 PM - 03.00 PM | Q&A |

Session Coordinator: Ms. Piumi Tennakoon

FRIDAY, 15 AUGUST 2025

SESSION 1E

| | |
|----------------------|--|
| Theme | Lean Integration for Sustainable Construction |
| Session Chair | Dr. Mohan Siriwardena |
| Venue/Time | Room E - 01.00 PM - 03.00 PM |
| Virtual | Breakout Room - Session E |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 01.00 PM - 01.15 PM | S17032: BIM Implementation by Integrating Lean Construction and IDT (LCIDT) <i>Rhijul Sood, Nandini Sharma, Boeing Laishram</i> |
| 01.15 PM - 01.30 PM | S17056: Client Satisfaction Model for Lean Implemented Construction SMEs: A Review <i>K.G.P.N. Munasingha, K.A.T.O. Ranadewa, M.R.D.P. Wijerathna</i> |
| 01.30 PM - 01.45 PM | S17063: Lean Thinking for Green Building: Barriers for Lean Integrated Sustainable Construction <i>S.J.L. Madhushani, K.A.T.O. Ranadewa, L.D.I.P. Seneviratne</i> |
| 01.45 PM - 02.00 PM | S17100: Lean Integrated Business Model for Construction - A Systematic Review on Current Practices and Future Directions <i>P.W.A.H. Lawanga, Y.G. Sandanayake, K.A.T.O. Ranadewa</i> |
| 02.00 PM - 02.15 PM | S17104: Lean Integrated Circular Economy in the Sri Lankan Construction Industry: A Qualitative Delphi Study <i>Hariis Vijayakumar, K.A.T.O. Ranadewa, Panchali Weerakoon, Agana Parameswaran, J.K.D.D.T. Jayanetti</i> |
| 02.15 PM - 02.30 PM | S17107: Integration of Lean Kaizen Model to Enhance Material Efficiency in Construction Projects: A Literature Review <i>Sathursiya Selasteen, B.A.K.S. Perera, Anuki S. Kavirathna</i> |
| 02.30 PM - 03.00 PM | Q&A |

Session Coordinator: Ms. Dewmini Wijerathne

FRIDAY, 15 AUGUST 2025

SESSION 2A

| | |
|----------------------|---|
| Theme | Advancing Circular Economy Practices and Policy in the Built Environment |
| Session Chair | Dr. Dilani Abeynayake |
| Venue/Time | Room A - 03.30 PM - 05.30 PM |
| Virtual | Breakout Room - Session A |

| Time | Paper ID, Title and Author(s) |
|---------------------|--|
| 03.30 PM - 03.45 PM | S17025: Private Sector Role as a Key Stakeholder Towards the Circular Economy in the Construction Industry in Sri Lanka <i>N.V.J. Chathurya, K.A.N. Gunarathna, Kavini Guruge</i> |
| 03.45 PM - 04.00 PM | S17072: Moving from Linear to Circular Apparel Economy in Sri Lanka: PRISMA-Based Analysis of Circular Economy and Supply Chain Interactions <i>C.H. Kumara, Harshini Mallawaarachchi, J.A.D.K.S. Jayakodi</i> |
| 04.00 PM - 04.15 PM | S17088: Competencies of Construction Professionals to Perform Circular Economy Practices: A Systematic Review <i>D.S.I. Wijayawardena, Iresha Gamage, Sepani Senaratne, B.A.K.S. Perera</i> |
| 04.15 PM - 04.30 PM | S17097: A Review on Circular Economy and its Synergy with Industrial Symbiosis <i>Angel Lokuge, Gihan Anuradha Tennakoon, Udayangani Kulatunga</i> |
| 04.30 PM - 04.45 PM | S17108: Comparison of Legislation of UK and Sri Lanka for Better Implementation of Circular Economy in Sri Lankan Construction Industry <i>M.D.T.E. Abeynayake, B.A.K.S. Perera</i> |
| 04.45 PM – 05.00 PM | S17132: Review of Circularity Assessment Tools in the Built Environment <i>S. Shende, V. Anagal, A. Manewa, S. Karve, A. Garud, M. Siriwardena</i> |
| 05.00 PM - 05.30 PM | Q&A |

Session Coordinator: Ms. Nimaya Perera

FRIDAY, 15 AUGUST 2025

SESSION 2B (Hybrid)

| | |
|----------------------|---|
| Theme | Digital Transformation and Technology Adoption in Construction |
| Session Chair | Dr. Navodana Rodrigo |
| Venue/Time | Room B - 03.30 PM - 05.15 PM |
| Virtual | Breakout Room - Session B |

| Time | Paper ID, Title and Author(s) |
|---------------------|--|
| 03.30 PM - 03.45 PM | S17006: Assessing Organisational Readiness for Digital Transformation: Key Attributes for Indigenous South African Construction Firms <i>Mayowa Adedapo Ogungbe, Matthew Ikuabe, Clinton Ohis Aigbavboa</i> |
| 03.45 PM - 04.00 PM | S17007: Defining Green Building Criteria for Building Information Modeling-Based Rating Systems <i>Mustika Sari, Mohammed Ali Berawi, Rahmadi Surya, Gunawan Saroji, Nunik Madyaningarum, Siti Rahma Utami, Rafly Muzady</i> |
| 04.00 PM - 04.15 PM | S17085: Towards a Computerised Maintenance Management System for Healthcare Facilities in South Africa <i>Matthew Ikuabe, Clinton Aigbavboa, Bankole Awuzie, Mayowa Ogungbe</i> |
| 04.15 PM - 04.30 PM | S17090: Barriers to Adoption of Automation in Indian Construction Projects <i>Mohammed Akberuddin Adnan, Santhosh Loganathan</i> |
| 04.30 PM - 04.45 PM | S17103: A Review of Procurement and Management of Building Services Systems: Complexities and Technology Adoption <i>Sachindra Hewavitharana, Srinath Perera, Xiaohua Jin, Krisanthi Seneviratne, Keivan Bamdad</i> |
| 04.45 PM – 05.15 PM | Q&A |

Session Coordinator: Mr. Lakshitha Bandaranayake

FRIDAY, 15 AUGUST 2025

SESSION 2C

| | |
|---------------|--|
| Theme | Sustainable Construction and Circular Economy Strategies |
| Session Chair | Prof. Lalith De Silva |
| Venue/Time | Room C - 03.30 PM - 05.30 PM |
| Virtual | Breakout Room - Session C |

| Time | Paper ID, Title and Author(s) |
|---------------------|--|
| 03.30 PM - 03.45 PM | S17058: Towards Successful Implementation of Offsite Construction in Sri Lanka: Barriers and Strategies <i>L.P.T. Manodya, R.P.H.S. Bandara, P.H.Y. Buddhini</i> |
| 03.45 PM - 04.00 PM | S17023: Unlocking Efficiency in Timber Frame Construction: A Comparative Study of On-Site vs. Off-Site Approaches in Scotland <i>Georgia Fraser, Nirodha Fernando, Deeksha Sharma</i> |
| 04.00 PM - 04.15 PM | S17031: Potential Use of Plastic Waste as a Sustainable Construction Material in Sri Lanka <i>S. Geerthanalan, S. Sivanraj</i> |
| 04.15 PM - 04.30 PM | S17043: Optimising Material Selection for Design for Deconstruction: A Kano Model-Based Evaluation of Doors and Windows <i>P.H.G.M.A. Ranasinghe, K.G.A.S. Waidyasekara, D.N.L.S. Nuwantha</i> |
| 04.30 PM - 04.45 PM | S17050: Green Adaptive Re-Use of Buildings in Sri Lanka <i>H.G.S. Dushmantha, Udayangani Kulatunga, N.B. Nanayakkara, W.S.D Perera</i> |
| 04.45 PM – 05.00 PM | S17059: Towards a Circular Economy: Evaluating Effective Implementation Strategies for Recycling and Reuse Programmes in Sri Lanka's Construction Industry <i>S.D.V. Lakshan, W.M.C.L.K. Wijekoon, P.H.Y. Buddhini</i> |
| 05.00 PM - 05.30 PM | Q&A |

Session Coordinator: Ms. Anuki Kavirathna

FRIDAY, 15 AUGUST 2025

SESSION 2D

| | |
|----------------------|---|
| Theme | Human-Centered and Technological Approaches to Urban Disaster Resilience |
| Session Chair | Dr. Sachie Gunathilake |
| Venue/Time | Room D - 03.30 PM - 05.30 PM |
| Virtual | Breakout Room - Session D |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 03.30 PM - 03.45 PM | S17013: Disaster-Resilient Cities: Temporal Analysis of Urban Land Use Land Cover Changes and Urban Floods from 1999 To 2022: Case Study of Colombo, Sri Lanka <i>U. Abeysinghe, H.U.C.P. Hewawasam, J. Manatunga</i> |
| 03.45 PM - 04.00 PM | S17039: Sustainable Urban Mobility in Sri Lanka: The Imperative for an Inherent Human-Centered Approach for Holistic Development <i>J.A.C.D. Jayalath, Udayangani Kulatunga</i> |
| 04.00 PM - 04.15 PM | S17061: Review on Technological Interventions to Enhance Flood Resilience in the Built Environment <i>R.P.T. Nayanathara, M. Thayaparan</i> |
| 04.15 PM - 04.30 PM | S17098: Serious Games for Disaster Risk Reduction: Enhancing Community Preparedness for Sustainable Futures <i>Udayangani Kulatunga, H. Tariq</i> |
| 04.30 PM - 04.45 PM | S17111: Crowdfunding for Post-Disaster Reconstruction Projects: A Conceptual Framework <i>M.R.M. Riskan, K.D. Sepalage, D. Weerasooriya, K.A.T.O. Ranadewa</i> |
| 04.45 PM – 05.00 PM | S17126: A Human Centred Approach to Post Disaster Resettlement Housing: Case Study on Walk-Up Apartments in Sri Lanka <i>M.S.N. de Zoysa, S.B.A. Coorey, M. Thayaparan, L. de Silva</i> |
| 05.00 PM - 05.30 PM | Q&A |

Session Coordinator: Mr. Yasith Sandaruwan

FRIDAY, 15 AUGUST 2025

SESSION 2E

| | |
|----------------|--|
| Theme | Digital Innovations and Strategies for Energy Management in Built Environments |
| Session Chairs | Dr. Chandanie Hediwattage |
| Venue/Time | Room E - 03.30 PM - 05.30 PM |
| Virtual | Breakout Room - Session E |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 03.30 PM - 03.45 PM | S17037: Developing a Satellite-Enabled Digital Twin Ecosystem Framework for Energy Monitoring in Smart Cities in Sri Lanka: A Literature Review <i>Rusin Thathsara, Harshini Mallawaarachchi</i> |
| 03.45 PM - 04.00 PM | S17042: Short-Term Electricity Demand Forecasting in Sri Lanka Using Statistical and Deep Learning Models <i>Ranju Kumari Shiwakoti, Piya Limcharoen, D.N.L.S. Uduwage</i> |
| 04.00 PM - 04.15 PM | S17049: IOT Implementation for Energy Management within Residential Buildings in Sri Lanka: Drivers and Barriers <i>P. Theiventhralingam, S. Sivanraj, K.H.K Dharmadasa, Udayangani Kulathunga</i> |
| 04.15 PM - 04.30 PM | S17071: The Effect of Vertical Greenery Systems on Building Energy Performance: Overall Thermal Transfer Value-Based Comparative Analysis <i>R.A.A. Munsif, Harshini Mallawarachchi, Dimuthu Vijerathne</i> |
| 04.30 PM - 04.45 PM | S17073: Building Energy Data Management Systems in the World: A Review <i>S.D.R.Y. Silva, H.W.N. Madhusanka, K.A.R.V.D. Kahandawa</i> |
| 04.45 PM – 05.00 PM | S17079: An Investigation into Effective Energy Behavior Control Strategies in the Apparel Manufacturing Sector <i>N. Premananth, S.D.A. Soorige</i> |
| 05.00 PM - 05.30 PM | Q&A |

Session Coordinator: Ms. Nawanjana Manapperuma

SATURDAY, 16 AUGUST 2025

SESSION 3A

| | |
|---------------|--|
| Theme | Innovations in Sustainable Facilities and Maintenance Management |
| Session Chair | Dr. Tharusha Ranadewa |
| Venue/Time | Room A - 08.30 AM - 10.00 AM |
| Virtual | Breakout Room - Session A |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 08.30 AM - 08.45 AM | S17080: Rainwater Harvesting Systems as a Sustainable Water Management Strategy: Addressing Water Security Challenges in Sri Lankan Buildings <i>W.M.S.D. Wijerathna, G.A.K. Dulshan, K.A.S.H. Wjayasenarathne, R.M.A. Dilini</i> |
| 08.45 AM - 09.00 AM | S17081: Applicability of Lean Maintenance Practices to Mitigate Maintenance Management Issues in Sri Lankan High-Rise Residential Buildings <i>U.H.M.S. Samaranayaka, U. Rathnayake, A.S.W Karunarathna</i> |
| 09.00 AM - 09.15 AM | S17089: Shaping Regenerative Stormwater Management: A Conceptual Framework for Blue-Green Infrastructure <i>H. Nethmini, C. Hadiwattage, S. Sivanraj, M.M.N. Mannapperuma</i> |
| 09.15 AM - 09.30 AM | S17101: Assessing the Impact of Organisational Culture on Digital Transformation in the Sri Lankan Facilities Management Industry <i>A.S.W. Karunarathna, Jayantha Wadu Mesthrige</i> |
| 09.30 AM - 09.45 AM | S17102: Identifying Maintenance Training Needs in Sri Lanka's Apparel Industry and Augmented Reality as a Strategic Solution <i>W.M.I.H. Wijesundara, P. Sridarran, P.A.P.Y. Gajaba</i> |
| 09.45 AM – 10.00 AM | Q&A |

Session Coordinator: Mr. Kawshalya Sepalage

SATURDAY, 16 AUGUST 2025

SESSION 3B (Hybrid)

| | |
|----------------------|--|
| Theme | Sustainability, Social Impact, and Workforce in Global Construction |
| Session Chair | A/Prof. Gajendran Thayaparan |
| Venue/Time | Room B - 08.30 AM - 10.00 AM |
| Virtual | Breakout Room - Session B |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 08.30 AM - 08.45 AM | S17004: Coping Strategies Adopted by Inhabitants with Asbestos Cement Roof Houses in South African Legacy Township <i>Nonhlanhla Maphoso, Christopher Amoah</i> |
| 08.45 AM - 09.00 AM | S17087: Assessing Key Risk Factors for Workers During Nighttime in the Indian Construction Industry <i>Naman Srivastava, Rohit Sahu, Sparsh Johari</i> |
| 09.00 AM - 09.15 AM | S17113: Community Benefit and Engagement Frameworks in Australian Renewable Energy Transition: A Thematic Analysis <i>Umesha Weerapperuma, Navodana Rodrigo, M.K.C.S. Wijewickrama, George Zillante</i> |
| 09.15 AM - 09.30 AM | T17118: Assessing Factors Influencing Worker Retention in the Indian Construction Industry <i>Akumoni Pegu, Rohit Sahu, Sparsh Johari</i> |
| 09.30 AM - 09.45 AM | S17135: Sustainable Solar: Addressing the Growing Need for PV Panel Recycling <i>Tariq Umar, Sa'id Ahmed, Muhammad Qasim Rana</i> |
| 09.45 AM – 10.00 AM | Q&A |

Session Coordinator: Ms. Piumi Tennakoon

SATURDAY, 16 AUGUST 2025

SESSION 3C

| | |
|---------------|---|
| Theme | Innovative Data-Driven Approaches for Cost and Quality Optimization in Construction |
| Session Chair | Senior Prof. Kanchana Perera |
| Venue/Time | Room C - 08.30 AM - 10.00 AM |
| Virtual | Breakout Room - Session C |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 08.30 AM - 08.45 AM | S17001: Perceived and Expected Cost Optimization Affordances of Building Information Modelling in Sri Lankan Construction Projects <i>J. Logendran, S. Sivanraj, V. Lingasabesan, Himal Suranga Jayasena, B.A.I. Eranga</i> |
| 08.45 AM - 09.00 AM | S17005: A Study Assessing the Application of Artificial Neural Network for Preliminary Estimation in Sri Lankan Building Projects <i>U.P. Wijerathne, Udayangani Kulatunga, M.L.S.S. Fernando</i> |
| 09.00 AM - 09.15 AM | T17008: Predicting Cost Elements of Construction Projects Using Supervised Machine Learning Techniques <i>K.A.M. Rasila, I. Mahakalanda, M.W. Edirisooriya</i> |
| 09.15 AM - 09.30 AM | S17036: Optimizing Quality Management in the Construction Industry: A COQ-Based Predictive Analysis <i>Nandini Sharma, Rhijul Sood, Boeing Laishram</i> |
| 09.30 AM - 09.45 AM | S17128: Exploring Perceptual Mapping Technique as an Innovative Method of Representing Construction Cost Information <i>D.N.L.S. Uduwage, Himal Suranga Jayasena, S. Piranavan</i> |
| 09.45 AM – 10.00 AM | Q&A |

Session Coordinator: Mr. Yasith Sandaruwan

SATURDAY, 16 AUGUST 2025

SESSION 3D

| | |
|-----------------------|---|
| Theme | Policy, Education, and Sustainability Challenges |
| Session Chairs | Prof. Menaha Thayaparan |
| Venue/Time | Room D - 08.30 AM - 10.00 AM |
| Virtual | Breakout Room - Session D |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 08.30 AM - 08.45 AM | S17028: Constructing National Policy for Future Generations: A Design Approach to Children's Books <i>S. Samarawickrama</i> |
| 08.45 AM - 09.00 AM | S17044: Decent Work Enforcement Gaps: Adapting Global Lessons into Sri Lankan Construction Industry <i>Sathyami Dissanayake, D.N.L.S. Uduwage, R.A.B.U.N. Perera</i> |
| 09.00 AM - 09.15 AM | S17095: Evaluating the Effectiveness of Approved Document in Mitigating Overheating in Buildings: A Focus on Modern Methods of Construction <i>Patience Isaac, Roshani Palliyaguru, R.A.B.U.N. Perera</i> |
| 09.15 AM - 09.30 AM | S17117: Impact of the Sri Lankan Government Economic Reform Programmes on the Construction Industry since Year 2022 <i>B. Gheethanjali, Y.G. Sandanayake, D.M.L.N. Bandaranayake</i> |
| 09.30 AM - 09.45 AM | S17136: Present Realities and Future Directions of AI Integration within Built Environment Higher Education <i>L. Jones, A. Manewa, M. Siriwardena, V. Anagal, S. Karve, A. Guard</i> |
| 09.45 AM – 10.00 AM | Q&A |

Session Coordinator: Ms. Anuki Kavirathna

SATURDAY, 16 AUGUST 2025

SESSION 3E

| | |
|----------------------|---|
| Theme | Sustainable Waste Management and Material Innovation in Construction |
| Session Chair | Prof. Udayangani Kulatunga |
| Venue/Time | Room E - 08.30 AM - 10.00 AM |
| Virtual | Breakout Room - Session E |

| Time | Paper ID, Title and Author(s) |
|---------------------|---|
| 08.30 AM - 08.45 AM | S17027: A Bibliometric Analysis of Computer Vision Applications in Construction and Demolition Waste Management <i>A.S.W. Karunarathna, G.G.N. Chandani</i> |
| 08.45 AM - 09.00 AM | S17021: Utilization of Textile Industry By-Products to Develop and Optimize Geopolymerized Mud Concrete for Sustainable Construction <i>K.G.C. Gayashani, R.K.N.P. Piyasena, D.A. Oshadhi, S.M. Young, R.U. Halwatura</i> |
| 09.00 AM - 09.15 AM | S17076: Impact of Material Waste Management on Construction Cost of the Projects in Sri Lankan Construction Industry <i>Malith Jaypadma, Kumari Wijekoon, Hansi Deheragoda</i> |
| 09.15 AM - 09.30 AM | S17124: Bridging the Gap: Enabling a Secondary Material Market for Construction and Demolition Waste <i>A.V.R.S. Kavindi, I.E. Illeperuma, M.D.T.E. Abeynayake</i> |
| 09.30 AM - 09.45 AM | S17047: Urban Symbiosis in Municipal Solid Waste Management and Reduction: Insights from a Bibliometric Review <i>G.G.N. Chandani, A.S.W. Karunarathna</i> |
| 09.45 AM – 10.00 AM | Q&A |

Session Coordinator: Ms. Saambavi Sivanraj

SATURDAY, 16 AUGUST 2025

SESSION 4A

| | |
|---------------|--|
| Theme | Enhancing Construction Performance through Innovation and Management |
| Session Chair | Dr. Nuwantha Uduwage |
| Venue/Time | Room A - 10.30 AM – 12.00 NOON |
| Virtual | Breakout Room - Session A |

| Time | Paper ID, Title and Author(s) |
|-----------------------|---|
| 10.30 AM - 10.45 AM | S17012: Readiness to Implement Construction 4.0 Applications in Building Construction Projects in Sri Lanka <i>I.H.G.Y.M.W.U. Yaparathne, D.D. Dias, Kavini Guruge</i> |
| 10.45 AM - 11.00 AM | S17077: Barriers for Time, Cost, and Quality Management in Polymer Modified Asphalt Road Construction in Sri Lanka <i>M.M. Nilanka, R.M.T.D. Rajapaksha, S.D. Gallage, D.M.L.N. Bandaranayake</i> |
| 11.00 AM - 11.15 AM | S17086: A Scoping Review of Construction SMEs: Global vs Local <i>M.R.I.U.K. Ratnayake, M.R.D.P. Wijerathna, K.A.T.O. Ranadewa, B.A.K.S. Perera</i> |
| 11.15 AM - 11.30 AM | S17099: Buildability Momentum across Project Stages: Empirical Insights from RIBA Plan of Work towards Sustainable Construction <i>P.L.I. Wimalaratne, Udayangani Kulatunga</i> |
| 11.30 AM - 11.45 AM | S17120: Early Commissioning of MEP Works for Better Building Performance <i>Chathuranga Jayasinghe, Sachie Gunatilake, Dasuni Kodituwakku</i> |
| 11.45 AM - 12.00 NOON | Q&A |

Session Coordinator: Ms. Nimaya Perera

SATURDAY, 16 AUGUST 2025

SESSION 4B (Hybrid)

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|---------------|--|
| Theme | Innovative Approaches for Improving Construction Project Performance |
| Session Chair | Assistant Prof. Sivakumar Palaniappan |
| Venue/Time | Room B - 10.30 AM – 12.00 NOON |
| Virtual | Breakout Room - Session B |

| Time | Paper ID, Title and Author(s) |
|-----------------------|--|
| 10.30 AM - 10.45 AM | S17010: Impact of Constructability Issues in Large-Scale Condominium Projects: A Case Study for Sri Lanka <i>N.H.V.T.N. Nanayakkra, K.P.H. Perera, R.U. Halwatura</i> |
| 10.45 AM - 11.00 AM | S17064: Identifying and Quantifying the Challenges of Sri Lankan Public-Private Partnerships: A Sentiment Analysis Approach <i>Hirusheekesan Selvanesan, Udayangani Kulatunga, M.P.A.P. Wijayasiri</i> |
| 11.00 AM - 11.15 AM | S17067: Unpacking Agile Project Management in Indian Construction: Adoption Barriers, Industry Readiness and Sustainability Viewpoint <i>Ankit Rakshit, Santhosh Loganathan</i> |
| 11.15 AM - 11.30 AM | S17116: Financial and Socio-Economic Impacts of Implementing Active Design Principles in South African Office Buildings <i>Liezl Le Roux, Tascha Bremer</i> |
| 11.30 AM - 11.45 AM | S17123: Beyond Efficiency: Rethinking Off-Site Construction for Post-Disaster Housing Reconstruction <i>A.P. Rathnasinghe, R.V.A.D. Rahubadda, N. Thurairajah, Udayangani Kulatunga</i> |
| 11.45 AM - 12.00 NOON | Q&A |

Session Coordinator: Ch. QS Dilshan Akalanka

SATURDAY, 16 AUGUST 2025

SESSION 4C

| | |
|---------------|--|
| Theme | Building Performance and Resilience through Defect Analysis and Evaluation |
| Session Chair | Dr. Anupa Manewa |
| Venue/Time | Room C - 10.30 AM – 12.00 NOON |
| Virtual | Breakout Room - Session C |

| Time | Paper ID, Title and Author(s) |
|-----------------------|--|
| 10.30 AM - 10.45 AM | S17009: Causes, Detection and Remediation of Water-Induced Building Defects: A Systematic Review <i>Argaw Gurmu, Dulani Denipitiya, Pabasara Upalakshi Wijeratne</i> |
| 10.45 AM - 11.00 AM | S17051: The Impact of Incremental Vertical Housing Development on Quality of Space and Residential Environmental Satisfaction: A Case Study of Swarna Place, Colombo, Sri Lanka <i>M.S.M. Senarathna, A.A. Hettiarachchi</i> |
| 11.00 AM - 11.15 AM | S17055: Post Occupancy Evaluation (POE) in Government Office Buildings: A Literature Review <i>H.D. Subhasingha, P.A.P.V.D.S. Disaratna, M.R.D.P. Wijerathna</i> |
| 11.15 AM - 11.30 AM | S17057: Improving Insulation in Sri Lankan High-Rise Buildings: Defects, Causes, and Selection Criteria <i>M.P.G.I. Priyanjith, H.W.N. Madhusanka, K.A.D.M. Natasha</i> |
| 11.30 AM - 11.45 AM | S17096: A Conceptual Framework for Capacity Building in Physical Asset Resilience <i>S.P. Koralage, P.A.D. Rajini, W.K.U.R.M.K.P.K. Samarakoon</i> |
| 11.45 AM - 12.00 NOON | Q&A |

Session Coordinator: Mr. Kawshalya Sepalage

SATURDAY, 16 AUGUST 2025

SESSION 4D

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|-----------------------|--|
| Theme | Sustainability Performance and Practices in the Built Environment |
| Session Chairs | A/Prof. Nirodha Fernando |
| Venue/Time | Room D - 10.30 AM – 12.00 NOON |
| Virtual | Breakout Room - Session D |

| Time | Paper ID, Title and Author(s) |
|-----------------------|---|
| 10.30 AM - 10.45 AM | S17041: Assessing SDG 7 Performance: Identifying Relevant KPIs for the Sri Lankan Construction Industry <i>K. Thiruchelvam, D.N.L.S. Uduwage</i> |
| 10.45 AM - 11.00 AM | S17070: Strategic Approach for Overcoming Barriers to Sustainable Entrepreneurship in Sri Lankan Construction Industry <i>R.P.S. Ranaweera, P. Sridarran, M.N.U Maddakandage</i> |
| 11.00 AM - 11.15 AM | S17091: Systematic Literature Review for Re-Defining ‘Green’ in Hospitality: Typology-Sensitive Interpretations <i>I.R. Wijesuriya, B.A.K.S. Perera, C.C. Abenayake</i> |
| 11.15 AM - 11.30 AM | S17119: Enhancing Sustainability in Renovation Projects: The Roles of the Contractor and Consultant <i>R. Jathurshan, K.G.A.S. Waidyasekara, H.C. Victar, M.M.N. Mannapperuma</i> |
| 11.30 AM - 11.45 AM | S17121: Criteria for Selecting Retrofitting Options for HVAC Systems in Sri Lankan Commercial Buildings <i>G.N.T.J. Bandara, Sachie Gunatilake, Dasuni Kodituwakku</i> |
| 11.45 AM - 12.00 NOON | Q&A |

Session Coordinator: Ms. Dewmini Wijerathne

SATURDAY, 16 AUGUST 2025

SESSION 4E

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|----------------|---|
| Theme | Optimising Public Procurement through Social Value and Competency |
| Session Chairs | Ch. QS Vijitha Disaratna |
| Venue/Time | Room E - 10.30 AM – 12.00 NOON |
| Virtual | Breakout Room - Session E |

| Time | Paper ID, Title and Author(s) |
|-----------------------|---|
| 10.30 AM - 10.45 AM | S17026: Integration of the Concept of Social Procurement into Construction Procurement in Sri Lanka <i>Malintha H. Fernando, B.A.K.S. Perera</i> |
| 10.45 AM - 11.00 AM | S17065: Shaping Successful Procurement Futures: The Evolving Landscape of Public-Private Partnerships in Sri Lanka <i>G. Fernando, C. Hadiwattege, M. Thayaparan, U. Kulathunga</i> |
| 11.00 AM - 11.15 AM | S17066: Establishing Schedule Quality Parameters for Effective Delay Analysis in Construction Projects <i>Sneha Baskar, Murali Jagannathan, Dheeraj K Ubhayakar, K Hariharan</i> |
| 11.15 AM - 11.30 AM | S17093: Competency Requirement for Professionals Involved in Public Construction Procurement Process: A Review <i>S.S. Weerathunge, K.A.T.O. Ranadewa</i> |
| 11.30 AM - 11.45 AM | T17106: Developing a Knowledge Value Chain Framework for Tendering in Sri Lankan Construction Organizations <i>Lebunu Hewage Udara Willhelm Abeydeera, Jayantha Wadu Mesthrige, A.S.W. Karunarathna</i> |
| 11.45 AM - 12.00 NOON | Q&A |

Session Coordinator: Ms. Nishadi Nanayakkara