

The 14th World Construction Symposium - 2026

Towards a Regenerative Built Environment: From Foresight to Action



SYMPOSIUM PROCEEDINGS



10 - 11 JULY 2026



COLOMBO SRI LANKA



ORGANIZED BY



CEYLON INSTITUTE OF BUILDERS
(CIOB) SRI LANKA



DEPARTMENT OF BUILDING ECONOMICS
UNIVERSITY OF MORATUWA

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PROCEEDINGS

of

THE 14TH WORLD CONSTRUCTION SYMPOSIUM

2026

ON

TOWARDS A REGENERATIVE BUILT

ENVIRONMENT: FROM FORESIGHT TO

ACTION

10-11 July 2026

EDITORS

Prof. K.G.A.S. Waidyasekara
Dr. H.S. Jayasena
Dr. H. Chandanie
Dr. G.A. Tennakoon

Building Economics and Management Research Unit (BEMRU)
Department of Building Economics
University of Moratuwa

Edited by Prof. K.G.A.S. Waidyasekara, Dr. H.S. Jayasena, Dr. H. Chandanie and Dr. G.A. Tennakoon

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The Ceylon Institute of Builders (CIOB), Sri Lanka



Established in 1961, the Ceylon Institute of Builders (CIOB) is the premier institute for Building Professionals in Sri Lanka with a strong network of Engineers, Architects, Surveyors and similar allied professions who work to inspire, encourage, educate and train students, builders, and professionals in the country. The institute welcomes young entrants and mature professionals with or without a background in construction to achieve professional level careers in the country. They are provided with a well-structured development programme that eventually leading to gaining corporate membership of the institute.

<http://www.ciob.lk/>

Department of Building Economics University of Moratuwa, Sri Lanka



The Department of Building Economics, University of Moratuwa, Sri Lanka was founded in 1983. It is currently the pioneer Sri Lankan institution to offer programmes in Quantity Surveying, Project Management, and Construction Law and Dispute Resolution. Building Economics and Management Research Unit (BEMRU) is the research arm of the Department of Building Economics, which specialises in research in Building Economics and Management in the country as well as internationally.

<https://uom.lk/becon>

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Adelaide University



Adelaide University is a newly established institution formed through the merger of University of Adelaide and University of South Australia. As one of Australia's largest universities that is a member of Group of 8, it is designed to be a globally competitive, research-intensive institution offering innovative and industry-aligned education across disciplines including architecture, engineering, design, and the built environment.

Adelaide University offers a broad range of undergraduate and postgraduate programs supported by contemporary infrastructure and interdisciplinary learning spaces. Its campuses integrate advanced laboratories, design studios, and collaborative environments that emphasize hands-on learning and real-world application. Facilities include digital fabrication labs equipped with 3D printing, immersive technologies, and emerging digital technologies that support creative exploration and technical development.

The university also provides comprehensive student amenities, including modern libraries, digital learning platforms, and vibrant campus communities. With a strong focus on global collaboration, sustainability, and innovation, Adelaide University promotes a holistic educational approach, preparing students to become future-ready professionals and leaders in a rapidly evolving world.

<https://www.adelaide.edu.au/>

Centre for Smart Modern Construction, Western Sydney University, Australia



Western Sydney University is a world-class university with a growing international reach and reputation for academic excellence and impact-driven research. It is ranked amongst the top three percent of universities in the world, globally focused, research-led and committed to making a positive impact – at a regional, national and international level. It was established as a modern university in 1989 from its predecessors dating back to 1891. The WSU currently has over 40,000 students in a sprawling series of campuses across the Western Sydney region.

<https://www.westernsydney.edu.au/>

Deakin University, Australia



Deakin University is a public university in Australia, with multiple campuses across Victoria and New South Wales. It was founded in 1974 and is named after Alfred Deakin, Australia's second Prime Minister. Deakin University offers undergraduate, postgraduate, and research courses across a wide range of disciplines, including Arts, Business and Law, Education, Engineering, Health, Information Technology, Science, and Sport.

<https://www.deakin.edu.au/>

ASSOCIATE PARTNERS

Indian Institute of Technology Madras (IIT Madras), India



Indian Institute of Technology Madras is one among the foremost institutes of national importance in higher technological education, basic and applied research. The institute has sixteen academic departments and a few advanced research centres in various disciplines of engineering and pure sciences, with nearly 100 laboratories organized in unique pattern of functioning.

<http://www.iitm.ac.in>

Massey University, New Zealand



Massey University is a reputable institution of higher learning located in New Zealand that prides itself on academic leadership, research excellence, and innovative teaching grounded in real-world issues. The university offers a range of academic programs and services to support the academic and personal development of its students. The university offers postgraduate degrees that you can complete fully online and is the leading university in New Zealand for online and borderless education.

<https://www.massey.ac.nz/>

MKSSS's Dr B N College of Architecture for Women, Pune, India



Dr. Bhanuben Nanavati College of Architecture for Women (BNCA), located in Karve Nagar, Pune, is a premier institute affiliated with Savitribai Phule Pune University and part of the Maharshi Karve Stree Shikshan Sanstha. It offers undergraduate and postgraduate programs in architecture exclusively for women. The campus features advanced facilities, including India's first Fab-Lab in Digital Architecture with 3D printing, CNC machines, and robotic arms. BNCA also provides a well-stocked digital library, paperless LMS, modern studios, and fully equipped workshops. Hostel accommodation is available for over 1,200 students, with amenities like a gym, dining halls, and solar water heating. As a United Nations Academic Impact (UNAI) Hub, BNCA promotes global collaborations and holistic education, nurturing future-ready architects.

<https://bnca.ac.in/>

Colombo School of Construction Technology (CSCT), Sri Lanka



The CSCT was established in 2008, with the motto 'Sapientia et Doctrina', which is Latin for Wisdom and Learning. It strives to create a learning environment to nurture the development of critical thinking skills; support innovation; and develop knowledge and expertise of our students. CSCT faculty have expertise in a broad range of specialties and have developed curriculums in each of the programs that meet the needs of the construction industry.

<https://csct.edu.lk/>

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The University of Newcastle, Australia



The University of Newcastle, Australia, established in 1965, is a leading public university with campuses across Newcastle, the Central Coast, Port Macquarie, and Sydney. Offering a wide range of undergraduate, postgraduate, and research programs spanning diverse disciplines such as Arts, Business, Engineering, Health Sciences, and Environmental Studies, the university is committed to academic excellence, research innovation, and community engagement, preparing students for successful careers and meaningful contributions to society. With a strong emphasis on interdisciplinary collaboration and industry partnerships, the University of Newcastle ensures students gain practical experience and skills relevant to today's workforce.

<https://www.newcastle.edu.au/>

Built Environment Project and Asset Management (BEPAM)

Journal, Published by Emerald Group Publishing



BEPAM provides, a unique one-stop forum that publishes peer-reviewed research and innovative developments in both project management and asset / facilities management of building and civil engineering infrastructure. The journal also targets important interface issues between the planning, design and construction activities on the one hand, and the management of the resulting built assets / facilities on the other. Launched in 2011, BEPAM is well established internationally, e.g., being encouraged by CIB, recognised by the Australian Business Deans Council and indexed in SCOPUS, EBSCO, INSPEC and the Emerging Sources Citation Index (ESCI) of Thomas Reuters.

<http://www.emeraldinsight.com/bepam.htm>

International Council for Research and Innovation in Building and Construction (CIB)



The International Council for Research and Innovation in Building and Construction (CIB) is a global organization that promotes research, innovation, and collaboration within the building and construction industry. Established in 1953, CIB connects researchers, academics, industry professionals, and policymakers to address challenges and improve the performance of the built environment. Its mission is to encourage the exchange of knowledge, support interdisciplinary research, and advance sustainable and resilient construction practices.

CIB operates through international working commissions and task groups that focus on topics such as sustainable construction, digital technologies, building performance, construction management, and resilience. The organization also hosts conferences, workshops, and seminars where experts share research findings and best practices.

ASSOCIATE PARTNERS

Additionally, CIB publishes technical reports and research publications that contribute to the development of innovative construction methods and policies. By fostering international cooperation and knowledge sharing, CIB plays a vital role in improving the quality, sustainability, and efficiency of the global building and construction industry.

<https://cibworld.org/>

ACKNOWLEDGEMENT

We extend our sincere appreciation to the Ceylon Institute of Builders (CIOB) for inviting the Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, to jointly organise the 14th World Construction Symposium (WCS) under the theme *"Towards a Regenerative Built Environment: From Foresight to Action."* This symposium marks the 14th milestone in the WCS series, which commenced in 2012 and has since been continued through the generous contributions and support of numerous individuals and organisations.

We gratefully acknowledge our Associate Partners: Adelaide University, Australia; Centre for Smart Modern Construction, Western Sydney University, Australia; Deakin University, Australia; Indian Institute of Technology Madras (IIT Madras), India; Massey University, New Zealand; MKSSS's Dr. Bhanuben Nanavati College of Architecture for Women, Pune, India; Colombo School of Construction Technology (CSCT), Sri Lanka; The University of Newcastle, Australia; Built Environment Project and Asset Management (BEPAM) Journal, published by Emerald Group Publishing; and the International Council for Research and Innovation in Building and Construction (CIB).

We are especially thankful to all the authors who chose the 14th WCS as a platform to disseminate their research. Our heartfelt gratitude is also extended to the international and local scientific committee members for their rigorous reviews and constructive feedback, which ensured the high standard of accepted papers. We would like to further extend our gratitude to the chief guest, keynote speakers, panellists, session chairs, session coordinators, paper presenters, and other invitees, whose commitment and active participation greatly enriched the symposium. Their support enabled us to maintain the momentum of the annual WCS series, leading to its successful 14th iteration this year, held on 10 -11 July 2026 at the Hilton, Colombo.

We also express our appreciation to the Editor-in-Chief of BEPAM and the team at Emerald Group Publishing for their collaboration, as well as to our sponsors, including Tokyo Cement as Gold Partner, whose generous contributions made this year's event possible. Our gratitude is further extended to government and other institutions and all other supporting partners who provided assistance in various forms to make this symposium a success.

Thanks are also extended to the panellists and moderator of the Roundtable Brainstorming session on "Sustainable Supply Chains for Resilient Construction Industries in Developing Countries," which drew over 150 in-person and online participants. Prof. Mohan Kumaraswamy (Editor-in-Chief, BEPAM, Emerald Publishing) moderated, with Dr. Suranga Jayasena as Thematic Summary Contributor, and the panel comprised Prof. Hemanta Doloi, Dr. Josephine Vaughan, Senior Prof. Ananda Jayawardane and Ch.QS Lalith Ratnayake. Discussion centred on strengthening construction supply chain resilience and highlighted the need for closer academia-industry collaboration. The session was organized under CIB Task Group 129 and Working Commission 107 (CIB TG129 - W107) and marked the official launch of this joint working group. In addition, as guest session was led by Dr. Eziaku Rasheed and Associate Professor Mostafa Babaeian Jelodar, representing a collaboration between Massey University and the University of Moratuwa. Finally, we extend our heartfelt appreciation to our colleagues in the Organising Committee, the Symposium Secretariat, and the Department of Building Economics for their dedication and tireless efforts in ensuring the success of the 14th World Construction Symposium 2026.

Editors

The 14th World Construction Symposium
Colombo, Sri Lanka
July 2026

PREFACE

The 14th World Construction Symposium (WCS 2026), jointly organised by the Ceylon Institute of Builders (CIOB) and the Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, was held on the 10th and 11th of July 2026. The symposium was organised in partnership with the Adelaide University, Australia, Centre for Smart Modern Construction, Western Sydney University, Australia, Deakin University, Australia, Indian Institute of Technology Madras (IIT Madras), India, Massey University, New Zealand, MKSSS's Dr B. N. College of Architecture for Women, Pune, India, Colombo School of Construction Technology (CSCT), Sri Lanka, The University of Newcastle, Australia, Built Environment Project and Asset Management (BEPAM) Journal, published by Emerald Publishing, International Council for Research and Innovation in Building and Construction (CIB).

This year marks the 14th milestone in the WCS series, which has been held annually since its inception in 2012. Through its past iterations, the symposium has grown steadily, earning recognition among academics and industry professionals, both local and foreign, as a multi-stakeholder platform to share research, practical insights, and experiences within the built environment and construction domain. This year's symposium was convened under the theme *"Towards a Regenerative Built Environment: From Foresight to Action,"* envisioning a path towards sustainable and regenerative built environment for future generations.

The symposium attracted over 150 full paper submissions, each undergoing a rigorous peer-review process as outlined below:

- All submitted full papers were reviewed by at least two independent reviewers from the symposium scientific committee through a double-blind process. Reviewers evaluated papers based on originality, significance, reliability, presentation quality, and relevance to the symposium's scope. Final decisions on acceptance or rejection were made by the Scientific Committee Co-chairs, who also serve as editors of the proceedings.
- At least one of the authors of all the accepted papers were required to register and orally present the paper in the symposium.

A total of 140 papers were accepted, with authors from South Africa, Sri Lanka, Indonesia, Australia, UK, India, Nigeria, Qatar, New Zealand, Malaysia, Vietnam, the USA and Nepal. The papers span a wide range of sub-themes among them waste management, digital twins, BIM, energy and retrofits, net-zero built environments, circular economy, building performance, data-driven innovation, inclusive housing and urban design, procurement, costing and tendering, sustainability and governance, bio-based materials, safety and well-being, climate resilience and disaster risk management, regenerative design, and nature-inspired construction approaches. A total of 136 papers were included in the symposium proceedings.

As Scientific Committee Co-chairs, we are committed to upholding the highest standards of publication ethics and scholarly quality. Accordingly, the emphasis was placed on the rigour and relevance of accepted papers rather than their quantity. The proceedings presented here reflect the dedicated efforts of authors, reviewers, the organising committee, associate partners, and sponsors. It is our sincere hope that this body of work will contribute to advancing knowledge and inspire further dialogue as we collectively strive towards shaping a regenerative built environment for future generations.

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SYMPOSIUM INFORMATION

IMPORTANT: To ensure the proper execution of WCS 2026 hybrid symposium, please pay special attention to the instructions below. If you have any questions or difficulties following the guidelines, please contact the WCS 2026 Secretariat (info@ciobwcs.com) who will be happy to help.

How will WCS 2026 hybrid symposium work?

- The conference is delivered physically at Hilton, Colombo, Sri Lanka and virtually over a professional platform, Zoom, and is managed by a competent and experienced technical team.
- **All virtual paper presentations must be pre-recorded** to improve the quality of the delivery, avoid going over time and avoid any technical issue. However, speakers **should be virtually present for their entire session** in order to answer questions and participate in the discussion.
- The virtual conference is similar to any in-person conference. Presentations are assembled in parallel sessions according to themes. Participants can access the session of their choice by entering the WCS 2026 main meeting using the meeting ID and passcode and then selecting the breakout room for the parallel session of their choice. All registered attendees can attend all parallel sessions and switch from session to session at will.
- The symposium inauguration, panel discussion and the sum-up are held in the WCS 2026 main meeting room.
- As with in-person conferences, there will also be a dedicated period for questions and discussion after the presentations. Participants are able to use the chat or verbally ask questions during the Q&A session. The session chairperson may select a few questions, depending on the time allocated for the discussion, and read them to the presenter, who can answer verbally.
- All sessions are fully recorded. Please note that we automatically assume that presenters accept their recorded presentation to be made available to participants for post-conference streaming. In case of refusal, presenters need to notify us at info@ciobwcs.com by **08th July 2026** and the secretariat will manage the requests.

Preparing for your Virtual Session – Instructions for Virtual Presenters

Use the instructions below when presenting your paper at WCS 2026 virtual symposium.

Before the symposium starts

- Make sure that you have uploaded your pre-recorded presentation following the given instructions and have completed the registration process.
- Refer to the Symposium Programme and the Session Plan to find your presentation in the symposium programme as scheduled.
- Make sure to install Zoom on your computer and update it to the latest version (version 7.1.0 (41345) or higher).
- In preparation for the meeting, you can join a test meeting via <https://support.zoom.us/hc/en-us/articles/115002262083-Joining-a-test-meeting>. For the best experience, please use your webcam and test your audio.

- Test your internet speed, we recommend an Internet connection download speed of at least 1.5Mbps.
- A microphone is recommended as well as a quiet place cut off from ambient noise for better interactions.

Before your session starts

- Please make sure to join your assigned virtual session **10 minutes prior to the session start time** in case there are any issues that need to be worked out. Each session is conducted in a breakout room within the main Zoom meeting.
- When entering the session, make sure to identify yourself with **your name as it appears on your paper** to help the technical staff and the session chair to find you easily.
- Test your audio and video as you join; Mute your microphone when not speaking; Position your webcam at eye level and make eye contact as much as possible.

During the session

- As with a physical meeting, each session will proceed in the order identified and maintain the schedule.
- Each parallel session comprises of paper presentations (via playback of pre-recorded presentations) and a subsequent Q&A session.
- **Speakers should be virtually present for their entire session** in order to answer questions and participate in the discussion.
- A session chair is assigned to each session to introduce the presenters, facilitate and oversee time, and the Q&A period. A session coordinator is also assigned to each parallel session to manage the order of the presentations, initiate playback of the pre-recorded presentations and ensure smooth transitions between presentations.
- Pre-recorded presentations are managed by the session coordinator according to the established schedule (see Session Plan).
- A common Q&A session will follow the presentations in each session. The session chair will lead the Q&A period and time allotted.
- Please ensure that **your webcam is on during the Q&A session** so that attendees can view you.
- The participants may submit their questions verbally (You can use the **Raise Hand** tool to inform the session chair if you want to raise a question verbally) or via **Chat**. The session chair will choose the most relevant ones to read for presenters to answer during the Q&A period.
- The **Chat** tool can also be used by session chair and session coordinator to privately contact the presenters if needed. If you need technical assistance, you can inform the session coordinator using this tool.

To Access WCS 2026 Hybrid Symposium

To access the symposium virtually:

Join the 14th World Construction Symposium

<https://zoom.us/j/93208449801?pwd=xAUUv3nhPaggV3ggRaDPWBvHp2lf0e.1>

Meeting ID: 932 0844 9801

Passcode: WCS2026

- Make sure to install Zoom on your computer or update it to the latest version (version 7.1.0 (41345) or higher).
- Use the Meeting ID and passcode provided by the Symposium Secretariat to log on to the Main Meeting Room of the symposium. (The symposium inauguration, panel discussion and the sum-up are held in the WCS2026 main meeting room).
- Parallel paper presentation sessions are held in breakout rooms within the main meeting room. Once the breakout rooms are opened, you will be able to select and enter a breakout room of your choice. All registered attendees can attend all parallel sessions and switch from session to session at will. [Note: Participants not joined with the desktop or mobile app (version 7.1.0 (41345) or higher) may not be able to self-select a breakout room and will need to be assigned by the Host].
- To join the parallel session of your choice:
 - (1) Click **Breakout Rooms**  in your meeting controls.
 - (2) This will display the list of open breakout rooms (i.e. parallel sessions) created by the host.
 - (3) Hover your pointer over the number to the right of breakout room you wish to join, click **Join**, then confirm by clicking Join.
 - (4) Repeat as necessary to join other breakout rooms.
 - (5) You can leave the breakout room and return to the main meeting room at any time, or you can leave the meeting entirely from the breakout room.
 - (6) To leave the breakout room click **Leave Breakout Room** and choose if you want to leave the breakout room or the entire meeting (if you want to switch to a different parallel session, make sure to use the 'Leave Room' option to re-enter the main meeting room and join a different parallel session).
 - (7) When the host ends the breakout rooms, you will be notified and given the option to return to the main room immediately, or in 60 seconds.

Virtual Background for Zoom

- You can use an optional virtual background with your university/company logo to hide or standardize your backstage during your parallel session and/or symposium group photo (refer Symposium Agenda).
- We recommend that you do a test beforehand to see which background works better for you, depending on your environment.

Language

- The official language of the symposium is English. There will be no simultaneous translations.

Dress Code

- For the symposium: business, lounge or national attire
- For the fellowship and awards night: formal attire

Awards

- CIOB Best Paper Award
- CIOB – Highly Commended Paper Award
- BEPAM Best Paper award – with a certificate and a prize of free access to Emerald Insight for a period of 90 days and 40 free downloads for the author(s) of this Best paper
- Two (02) BEPAM Highly Commended Paper awards – with a certificate for the author(s) of each Highly Commended Paper

Certificate of Attendance

- A certificate of attendance will be issued to all authors, after the respective parallel sessions. The authors who participated in the symposium virtually will receive the e-certificates in due course.

Disclaimer

- Whilst every attempt being made to ensure that all aspects of the symposium mentioned in this announcement will take place as scheduled, the Organizing Committee reserves the prerogative to make last-minute changes should the need arise without prior notice.

MESSAGE FROM THE SYMPOSIUM CHAIRPERSON

Prof. Chitra Weddikkara

Chairperson

The 14th World Construction Symposium 2026



It is my honour and privilege to welcome you to the 14th World Construction Symposium, a flagship event in Sri Lanka's academic and professional calendar. Over the past fourteen years, this symposium has evolved into a leading platform that unites scholars, practitioners, and industry leaders to exchange ideas, share innovations, and explore pathways to address the challenges and opportunities in the construction sector. Organized under the patronage of the Ceylon Institute of Builders (CIOB) and the Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, it serves as a unique forum for reflection, engagement, and collaboration.

This year's theme, "Towards a Regenerative Built Environment: From Foresight to Action," highlights the crucial role of the construction industry in steering global efforts towards sustainability. Our responsibility extends beyond meeting immediate infrastructural needs. It is about translating foresight into tangible action, ensuring resilience, inclusivity, and prosperity for generations to come.

I extend my sincere appreciation to our sponsors, partners, and the organising committee, whose commitment and dedication have been instrumental in making this event a success. Their efforts ensure that the symposium continues to foster meaningful conversations that inspire actionable outcomes.

As we embark on this year's sessions, let us seize the opportunity to exchange knowledge, challenge conventional thinking, and co-create solutions that will move us from foresight to action in shaping a more sustainable and regenerative built environment. Thank you for joining us at the 14th World Construction Symposium and I look forward to the stimulating discussions and fruitful collaborations to follow.

MESSAGE FROM THE PRESIDENT, CIOB

Dr. Rohan Karunaratne

**President
The Ceylon Institute of Builders (CIOB)**



On behalf of the Ceylon Institute of Builders (CIOB), we take great pleasure in welcoming you to the 14th World Construction Symposium, to be held on the 10th and 11th of July 2026 in Colombo. This annual symposium has been jointly organized by the Ceylon Institute of Builders and the Department of Building Economics, University of Moratuwa, since the year 2012. The theme for the symposium is "Towards a Regenerative Built Environment: From Foresight to Action," in keeping with the global position and the sustainable goals of the construction industry.

As you know, CIOB's initiatives with the University of Moratuwa through this highly acknowledged event, the WCS, play a leading role in the sustainable development process for the construction industry. This has further strengthened integrated multidisciplinary teams to develop a number of appropriate technologies in the field of research and development. Recognition of such outstanding research achievements among researchers is a great motivating factor, and achievements by academic and professional bodies together are also a great encouragement for the industry and for further research. Furthermore, gaining Scopus-indexed status over the years has been a significant achievement for the WCS and the University of Moratuwa.

As in the past, this symposium has been greatly supported by construction industry stakeholders and professional institutions in its organization. I wish to record my special thanks to all our sponsors and well-wishers for their generous contribution to making this symposium a success.

While congratulating and appreciating the work done by the global and local contributors to the 14th WCS for the development of the construction industry through this significant international event, we wish WCS 2026 every success in all its accomplishments.

MESSAGE FROM THE HON. SECRETARY, CIOB

Eng. Saliya Kaluarachchi

**Hon. Secretary
The Ceylon Institute of Builders (CIOB)**



I am delighted to welcome you to the 14th World Construction Symposium 2026, scheduled for the 10th and 11th of July 2026 in Colombo. It gives me immense pleasure to share that the Ceylon Institute of Builders has been able to host the World Construction Symposium annually since 2012. The symposium has become a well-received event for both academics and professionals in the construction industry in Sri Lanka, and I am sure that this year's symposium too will live up to expectations and enable participants to gain valuable knowledge from the presentations and discussions.

The Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, Sri Lanka, is the joint organizer of this symposium. I would like to express my gratitude to them for their firm commitment and patronage. I am also thankful to the Associate Partners of the symposium, including BEPAM.

It is indeed an honour to have a renowned team of academics and researchers serving on the scientific committee, providing comprehensive reviews of the submissions. The extensive technical programme developed by the scientific committee includes five concurrent sessions/presentation tracks, giving professionals in the construction industry the opportunity to work towards their Continuing Professional Development targets.

My best wishes to our sponsors, the organizing committee, and everyone who worked tirelessly to make this event a reality. Let's make this a productive, inspiring, and unforgettable experience together.

MESSAGE FROM THE SYMPOSIUM CO-CHAIRPERSONS

Dr. Kalana Alwis

Eng. Ranji Hewage

Co-Chairpersons

Organizing Committee

The 14th World Construction Symposium 2026



We take great pleasure in welcoming all delegates to the 14th World Construction Symposium 2026, on the theme "Towards a Regenerative Built Environment: From Foresight to Action," to be held on the 10th and 11th of July 2026 in Colombo. CIOBWCS is an exciting annual event in the Sri Lankan construction industry, organized jointly by the Ceylon Institute of Builders (CIOB) and the Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, Sri Lanka.

The purpose and vision of this symposium is the promotion of academic and research activities in the field of sustainable construction. The symposium brings together like-minded individuals on a single platform to confer on new trends and challenges in sustainable construction. During the symposium, Sri Lankan academics, research scholars, and practitioners will have the opportunity to interact with eminent experts from overseas on sustainable construction and new developments in the global built environment.

Whilst thanking our special guests, speakers, professionals, academics, paper presenters, sponsors, and everyone here today for making this event a reality, we wish the symposium every success, with your continued participation and the commitment of the University of Moratuwa, along with the generous support of all from the Sri Lankan construction industry.

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MESSAGE FROM HEAD, DEPARTMENT OF BUILDING ECONOMICS, UNIVERSITY OF MORATUWA

Ch. QS. Dr Suranga Jayasena

**Head of the Department
Department of Building Economics
University of Moratuwa**



I extend my warmest wishes for the 14th World Construction Symposium 2026. This international event is jointly organized by the Building Economics and Management Research Unit (BEMRU) of the Department of Building Economics, University of Moratuwa, Sri Lanka and the Ceylon Institute of Builders (CIOB). The symposium brings together several esteemed national and international partners, including Adelaide University, Australia, Centre for Smart Modern Construction, Western Sydney University, Australia, Deakin University, Australia, Indian Institute of Technology Madras (IIT Madras), India, Massey University, New Zealand, MKSSS's Dr B. N. College of Architecture for Women, Pune, India, Colombo School of Construction Technology (CSCT), Sri Lanka, The University of Newcastle, Australia, Built Environment Project and Asset Management (BEPAM) Journal, published by Emerald Publishing, International Council for Research and Innovation in Building and Construction (CIB).

The global construction industry is moving towards a more regenerative and resilient future, responding to pressing challenges such as climate change, resource scarcity, economic uncertainty, and the need for sustainable development. The 14th World Construction Symposium is themed "*Towards a Regenerative Built Environment: From Foresight to Action*", highlighting the importance of translating forward-looking knowledge, research, and innovation into practical actions that can shape a sustainable and regenerative built environment for future generations.

This year's symposium provides an excellent platform for local and international delegates to share knowledge, exchange experiences, and present sustainable solutions and research findings that address contemporary challenges in the construction industry. I encourage all participants to make the most of this opportunity to engage in meaningful discussions, build networks, and contribute to the collective advancement of our industry.

I wish the 14th World Construction Symposium 2026 every success and look forward to its continued contribution towards shaping a sustainable and innovative construction future.

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SYMPOSIUM PROGRAMME

FRIDAY, 10 JULY 2026 – DAY ONE AT HILTON, COLOMBO.	
08.30 am	Symposium Registration
09.00 am	Symposium Inauguration
09.10 am - 09.20 am	Welcome address by President, CIOB Dr. Rohan Karunaratne
09.20 am - 09.30 am	Address by Conference Chairperson Prof. Chitra Weddikkara
09.30 am - 09.40 am	Address by Head of the Department Ch.QS Dr. Suranga Jayasena
09.40 am - 09.50 am	Address by Guest of Honour, Deputy Vice Chancellor, University of Moratuwa Prof. Dileeka Dias
09.50 am - 10.05 am	Address by the Chief Guest Chief Guest, Hon. Mr. Anton Jayakody Deputy Minister of Environment, Sri Lanka
10.05 am - 10.35am	Keynote Address <i>“From Extraction to Circulation: Rethinking Cities as Sources of Building Materials”</i> Dr Josephine Vaughan, University of Newcastle, Australia
10.35 am- 10.40 am	Sponsors Video
10.40 am- 11.00 am	Refreshments
11.00 am – 11.10 am	Guest Talks organised by the CIB Student Chapters of Massey University, New Zealand, and the University of Moratuwa, Sri Lanka Speaker 1: Dr. Eziaku Rasheed, Massey University, NZ <i>“Connect, Learn, Lead: What the CIB Student Chapter Can Do for You”</i>
11.10 am – 12.00 noon	Speaker 2: Associate Professor Mostafa Babacianjelodar, Massey University, NZ <i>“Advancing Sustainability in the Built Environment through Modern Methods of Construction and Automation”</i>
12.00 noon – 12.15 pm	Address by Editor-in-Chief, Built Environment Project and Asset Management (BEPAM) Journal <i>“Mobilising Urban-Rural Linkages for an Integrated Built-Natural Environment”</i> Prof. Mohan Kumaraswamy
12.15 am - 12.20 am	Sponsors Video
12.20 pm -12.30 pm	Vote of Thanks by the Hon. Secretary, CIOB Eng. Saliya Kaluarachchi
12.30 pm - 01.30 pm	Lunch Break
01.30 pm - 03.30 pm	Parallel Sessions 1
03.30 pm - 04.00 pm	Refreshments
04.00 pm - 06.00 pm	Parallel Sessions 2
06.00 pm	End of Day 1

SYMPOSIUM PROGRAMME

SATURDAY, 11 JULY 2026 – DAY TWO	
AT HILTON, COLOMBO.	
08.00 am	Symposium Registration
08.30 am - 10.30 am	Parallel Sessions 3
10.30 am - 11.00 am	Refreshments
11.00 am - 12.30 pm	Parallel Sessions 4
12.30 pm - 01.30 pm	Lunch Break
01.30 pm - 03.00 pm	Parallel Sessions 5
03.00 pm - 03.10 pm	Launching New CIB Task Group TG129: Urban-Rural Built and Natural Environment Synergies (URBANES) Ch.QS Dr. Suranga Jayasena (TG129 Lead Coordinator)
03.10 pm - 04.40 pm	CIB TG129-W107 - WCS Roundtable Brainstorming on: <i>“Sustainable Supply Chains for Resilient Construction Industries in Developing Countries”</i> Expert Panellists: Prof. Hemanta Doloi (W107 Lead Coordinator) Dr. Josephine Vaughan Senior Prof. Ananda Jayawardena Ch.QS. Lalith Rathnayake Moderator : Prof. Mohan Kumaraswamy Rapporteur : Dr. Suranga Jayasena (TG129 Lead Coordinator) Coordinator : Dr. Dilani Abeynayake (TG129 Early Career Researcher-ECR)
04.40 pm - 05.10 pm	Refreshments
05.10 pm - 05.20 pm	Announcing the Award Winners Prof. Mohan Kumaraswamy Prof. Anuradha Waidyasekara
05.20 pm - 05.30 pm	Vote of Thanks by Scientific Committee Co-Chairperson Dr. Gihan Tennakoon
05.30 pm	End of Programme
07.00 pm Onwards	Awards Ceremony and Symposium Dinner at the Hilton Colombo

SYMPOSIUM SESSION PLAN AT-A-GLANCE

SYMPOSIUM SESSION PLAN AT-A-GLANCE					
Friday, 10 th July 2026 - Day One					
08.30 am	Symposium Registration				
09.00 am - 12.30 pm	Symposium Inauguration				
12.30 pm - 02.00 pm	Lunch Break				Hybrid
02.00 pm - 03.30 pm	Session 1A	Session 1B	Session 1C	Session 1D	Session 1E
	S18034	S18002	S18025	S18008	S18058
	S18084	S18030	S18047	S18009	S18020
	T18119	S18067	S18121	S18045	S18024
	S18125	S18141	S18068	S18109	T18062
	S18158	S18016	S18116	S18056	S18102
	S18111	S18157	S18151	S18117	S18015
	Q&A	Q&A	Q&A	Q&A	Q&A
03.30 pm - 04.00 pm	Break				Hybrid
04.00 pm - 05.30 pm	Session 2A	Session 2B	Session 2C	Session 2D	Session 2E
	S18128	S18061	S18017	S18143	S18101
	S18099	S18162	S18043	T18087	S18040
	T18103	S18127	S18044	T18096	T18081
	S18074	S18134	S18050	S18114	T18093
	S18149	S18133	S18052	S18145	S18019
	S18113	S18088	S18085	T18136	S18167
	Q&A	Q&A	Q&A	Q&A	S18039
				Q&A	
05.30 pm	End of Day 1				
Saturday, 11 th July 2026 - Day Two					
08.30 am	Symposium Registration				Hybrid
09.00 am - 10.30 am	Session 3A	Session 3B	Session 3C	Session 3D	Session 3E
	S18023	S18120	S18059	S18097	S18003
	S18031	S18110	S18126	S18038	S18021
	S18094	S18115	S18135	S18161	S18032
	T18078	S18132	S18079	S18046	S18036
	T18108	S18138	S18169	S18142	S18083
	T18076	S18163	Q&A	S18075	S18168
	Q&A	Q&A		Q&A	S18130
				Q&A	
10.30 am - 11.00 am	Break				Hybrid
11.00 am - 12.30 pm	Session 4A	Session 4B	Session 4C	Session 4D	Session 4E
	S18129	S18035	S18089	S18070	S18004
	S18006	S18154	S18164	S18100	S18095
	S18106	S18131	S18092	T18071	S18165
	S18077	S18139	S18148	S18066	S18147
	S18160	S18069	S18054	S18170	S18150
	Q&A	Q&A	Q&A	Q&A	Q&A
12.30 pm - 01.30 pm	Lunch Break				Hybrid
1.30 pm - 2.50 pm	Session 5A	Session 5B	Session 5C	Session 5D	Session 5E
	S18018	S18001	S18105	S18073	S18010
	S18028	S18064	S18155	S18080	T18027
	S18049	S18156	S18166	S18123	S18029

SYMPOSIUM SESSION PLAN AT-A-GLANCE

	S18051	S18026	S18152	S18112	S18005
	S18072	Q&A	S18137	S18107	S18053
	Q&A		Q&A	Q&A	Q&A
02.50 pm	End of Parallel Sessions				
03.00 pm - 03.10 pm	Launching New CIB Task Group TG129: Urban-Rural Built and Natural Environment Synergies (URBANES)				
03.10 pm - 04.40 pm	WCS Roundtable Brainstorming on: “Sustainable Supply Chains for Resilient Construction Industries in Developing Countries”				
04.40 pm - 05.00 pm	Symposium Sum-Up				
05.00 pm - 05.30 pm	Refreshments				
05.30 pm	End of Programme				
07.00 pm onwards	Fellowship and Awards Night at the Hilton, Colombo				

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 1A

Theme	Waste Management for Regenerative Built Environment
Session Chair	Prof. (Mrs.) Udayangani Kulatunga
Venue/Time	Tanzanite 1 / 02.00 PM - 03.30 PM
Virtual	Breakout Room - Session A

Time	Paper ID, Title and Author(s)
02.00 PM - 02.10 PM	S18034: Pivot Strategies for Lean Construction Implementation: A Sri Lankan Perspective <i>S.A.A.B. Senevirarhne, C. Allis, K. Guruge</i>
02.10 PM - 02.20 PM	S18084: Contractual Provisions Inducing Construction Waste Generation: An Analysis of Sri Lankan Standard Forms of Contract <i>R.D.L. Fernando, R.M.H.R Bandara., M. Thayaparan.</i>
02.20 PM - 02.30 PM	T18119: From Waste to Use: Plywood Usage and Wastage in Slab and Beam Construction <i>W.M.P.M. Bandara, K.G.A.S. Waidyasekara, P.H.G.M.A. Ranasinghe</i>
02.30 PM - 02.40 PM	S18125: Robotics Systems for Closed Loop Construction: A Bibliometric Analysis of Construction Demolition Waste Management <i>M.K.L.I.C Fernando, P.L.I Wimalaratne</i>
02.40 PM - 02.50 PM	S18158: From Waste to Worth: Digitalizing Secondary Materials Market in Construction <i>K. Arthigan, B.A.I Eranga</i>
02.50 PM - 03.00 PM	S18111: Data Requirements for a Material Passport in the Sri Lankan Construction Industry <i>H.S Jayasena, S. Piranavan, H.G.G. Nawarathna</i>
03.00 PM - 03.30 PM	Q&A

Session Coordinator: Ms. Anuki Kavirathne

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 1B

Theme	Technological Transformation through Digital Twins & BIM
Session Chair	Assistant Professor Dr Ranju kumari Shiwakoti
Venue/Time	Tanzanite 2 / 02.00 PM - 03.30 PM
Virtual	Breakout Room - Session B

Time	Paper ID, Title and Author(s)
02.00 PM - 02.10 PM	S18002: From BIM 6D/7D to Operational Digital Twins Closing the Building Energy Performance Gap in Tropical Buildings - A Mixed-Methods Study in Sri Lanka <i>T.H. Madushanka, S.D.A. Soorige, H.W.N. Madhusanka</i>
02.10 PM - 02.20 PM	S18030: Assessing BIM Knowledge Among Construction Professionals in Sri Lanka: Challenges and Opportunities <i>G.K.G.S. Kosala, R.P.T Nyanathara</i>
02.20 PM - 02.30 PM	S18067: Prioritizing BIM-Based Safety Management Features Using the Analytic Hierarchy Process <i>T.N.D. Thanthirige, M.M.I.S. Mapa, G.G.N. Chandani</i>
02.30 PM - 02.40 PM	S18141: From Inertia to Integration: Evaluating the Challenges and Enablers of BIM in the Infrastructure Sectors of Sri Lanka and the Middle East <i>A. Lokuge, G.H.S.P De Silva, S. Vinoshan.</i>
02.40 PM - 02.50 PM	S18016: Conceptual Digital Twin Framework for Conserving Urban Cultural Heritage: A Case of Slave Island, Colombo <i>W.D.B.J. Jeewananda, K.S.K.N.J Kudasinghe, A.R. Rupasinghe</i>
02.50 PM - 03.00 PM	S18157: A Conceptual Hybrid Framework for CDE Configuration: Balancing ISO 19650 Rigidity with Agile Flexibility <i>B.K.C Perera, H.S. Jayasena, M. Siriwardena</i>
03.00 PM - 03.30 PM	Q&A

Session Coordinator: Mr. Kawshalya Sepalage

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 1C

Theme	Energy, Retrofits, and Net-Zero Built Environment
Session Chair	Associate Prof. Nirodha Fernando
Venue/Time	Aquamarine 1 / 02.00 PM - 03.30 PM
Virtual	Breakout Room - Session C

Time	Paper ID, Title and Author(s)
02.00 PM - 02.10 PM	S18025: Exploring the Current Status of Retrofitting or Rebuilding in Construction <i>B.W. Madanayake, S. Nissanka</i>
02.10 PM - 02.20 PM	S18047: Simulation-Based Evaluation of Energy Performance in Adaptive Reuse of Historic Buildings Across Different Climatic Zones of Sri Lanka <i>A. Tharmitha, G.Y. Jayasinghe, M.K.M Prabodani, K. Anojan, R.U. Halwatura</i>
02.20 PM - 02.30 PM	S18121: Strategies to Achieve Net-zero Carbon Goals in Construction Industry <i>R.M.D.D Rathnayake, B.A.K.S Perera, A.S Kavirathna</i>
02.30 PM - 02.40 PM	S18068: Enhancing Building Energy Data Management in Sri Lanka: Barriers, Enablers, and Strategic Pathways <i>R.Y. Silva, H.W.N. Madhusanka, K.A.R.V.D. Kahandawa</i>
02.40 PM - 02.50 PM	S18116: Conceptualising A Value Stream Mapping (VSM)-Based Decision-Making Model for Lean Energy Retrofitting of HVAC Systems in High-Rise Buildings: Literature Review Approach <i>H.M.D.C Gamagedara, H. Mallawaarachchi, J.A.D.K.S Jayakodi</i>
02.50 PM - 03.00 PM	S18151: Planning Net-Zero Energy Communities: Housing Strategies for Post-Disaster Resettlement in Sri Lanka - A Narrative Review <i>B.G.H.N Premasinghe, B.A.I Eranga</i>
03.00 PM - 03.30 PM	Q&A

Session Coordinator: Ms. Gheethanjali Balasubiramaniam

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 1D

Theme	Human-Centred perspectives on Built Spaces
Session Chair	Prof. Lalith De Silva
Venue/Time	Aquamarine 2 / 02.00 PM - 03.30 PM
Virtual	Breakout Room - Session D

Time	Paper ID, Title and Author(s)
02.00 PM - 02.10 PM	S18008: Unheard Stakeholder Voices: Evaluating the Functional Performance of the Manning Market Building <i>U. Hettithanthri, D.K.Nalaka Krishantha</i>
02.10 PM - 02.20 PM	S18009: Age-Related Variations in Spatial Cognition and Spatial Behavior in Royal Botanic Gardens, Peradeniya: Evidence from the Royal Botanic Gardens, Peradeniya <i>W.M.S.S. Dissanayake, S. Amendra</i>
02.20 PM - 02.30 PM	S18045: The Impact of Material Expression at Entrance Thresholds on Invitation to Access: A Comparative Study of Shopping Malls in Colombo, Sri Lanka <i>P.N.S Wijayarathne, S.M. Hirudini</i>
02.30 PM - 02.40 PM	S18109: Optimising Investment Decisions in Homestay Tourism: A Cost and Performance Analysis of Coastal Regions in Sri Lanka <i>Y.K.K Sampath, J.A.C.D. Jayalath, S. Piranavan, H.S. Jayasena</i>
02.40 PM - 02.50 PM	S18056: The Influence of Visibility on Personal Space Creation in Urban Public Spaces: A Case Study of the Arcade at Independence Square <i>Y.R. Dissanayake, S.M. Hirudini</i>
02.50 PM - 03.00 PM	S18117: Revisiting Methodological Taxonomy: Locating Design Science Research within Research Design Hierarchies <i>W.M.I.H. Wijesundara., P.L.I Wimalaratne., U. Kulatunga</i>
03.00 PM - 03.30 PM	Q&A

Session Coordinator: Ms. Nawanjana Mannapperuma

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 1E (Hybrid)

Theme	Operationalising Circular Economy and Emission Reduction
Session Chair	Associate Prof. Sivakumar Palaniappan and Dr. Prince Antwi-Afari
Venue/Time	Jade / 02.00 PM - 03.30 PM
Virtual	Breakout Room - Session E

Time	Paper ID, Title and Author(s)
02.00 PM - 02.10 PM	S18058: A Conceptual Framework for the Adoption of a Life Cycle Assessment-Based Emissions Trading Scheme in the Australian Construction Sector <i>P. Yang, B.T.H. Lim, B.L. Oo</i>
02.10 PM - 02.20 PM	S18020: Appropriateness of Commonly Used Methods for Assessing the Impacts of Circular Economy Practices <i>I. Gamage, S. Senaratne, S. Perera, X. Jin</i>
02.20 PM - 02.30 PM	S18024: Circular Economy Knowledge Management Initiatives in the Australian Construction and Demolition Waste Management Sector <i>M. Nadeetharu, N. Udawatta, G.P. Costin, G. Karunasena</i>
02.30 PM - 02.40 PM	T18062: Risk Perceptions in Circular Economy Adoption in the Australian Construction Industry <i>I.R. Kadirappulige, G. Karunasena, N. Udawatta, A. Grumu</i>
02.40 PM - 02.50 PM	S18102: Operationalizing Circular Economy in Mega Infrastructure Projects: A Data-Driven Analysis <i>P. Maneesha, S. Loganathan, D. Mouli</i>
02.50 PM - 03.00 PM	S18015: Analysing Key Process Areas in Developing the Circular Economy Maturity Model for Construction Organisations <i>S. Jayakodi, S. Senaratne, S. Perera, K. Bamdad</i>
03.00 PM - 03.30 PM	Q&A

Session Coordinator: Mr. Yasith Sandaruwan

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 2A

Theme	User-Centred Building Performance and Design
Session Chair	Associate Professor Sepani Senaratne
Venue/Time	Tanzanite 1 / 04.00 PM - 05.30 PM
Virtual	Breakout Room - Session A

Time	Paper ID, Title and Author(s)
04.00 PM - 04.10 PM	S18128: Integration of Post Occupancy Evaluation into Government Office Buildings to Enhance User Satisfaction <i>H.D. Subhasingha., P.A.P.V.D.S Disaratna</i>
04.10 PM - 04.20 PM	S18099: Ergonomic Performance Indicators for Evaluating Office Workstation Arrangements <i>T.A. Kasthuriarachchi, M.M.I.S. Mapa, G.G.N Chandani</i>
04.20 PM - 04.30 PM	T18103: Puzzleglaze: A User-Driven Window System to Maximize User Comfort <i>S.S. Shaikh, A.Garud</i>
04.30 PM - 04.40 PM	S18074: Workplace Design and Gen Z Retention: A Social Sustainability Perspective in Sri Lanka <i>S.N. Ranathunga., P. Dissanayake., W.N.K.B.N.A Sathsarani</i>
04.40 PM - 04.50 PM	S18149: Beyond The Envelope: Examining Project Management as a Catalyst for High-Performance Building Design <i>H. Deheragoda, G.H.S.P. De Silva, M. Jinthusan</i>
04.50 PM - 05.00 PM	S18113: Temperature and Humidity Control in Operating Theatres: BMS Vs. Thermostat Systems <i>K.S. Ramasingha, D.A. Soorige, K. A. D.M. Natasha</i>
05.00 PM - 05.30 PM	Q&A

Session Coordinator: Mr. Charuka Deshan

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 2B

Theme	Data-Driven Innovations in the Built Environment
Session Chair	Dr. Chandanie Hediwattage
Venue/Time	Tanzanite 2 / 04.00 PM - 05.30 PM
Virtual	Breakout Room - Session B

Time	Paper ID, Title and Author(s)
04.00 PM - 04.10 PM	S18061: From Reactive Reporting to Regenerative Control: Rethinking Construction Progress Monitoring in Sri Lanka through IOT Enabled Real-time Practices <i>T.M.A.Y.B. Malvila, R.M.H.R. Bandara, M. Thayaparan</i>
04.10 PM - 04.20 PM	S18162: Applicability of Artificial Intelligence for improving Infrastructure Resilience <i>S.A.L. Wimalasuriya, U. Kulatunga, D. Munasinghe, N. Dias</i>
04.20 PM - 04.30 PM	S18127: Integrating Computer Vision into Quality Assurance of Structural Concrete in Sri Lankan Construction Industry <i>V. Krishan, I. Seneviratne, B. Gheethanjali, S. Sivanraj</i>
04.30 PM - 04.40 PM	S18134: Macroeconomic Driven Cement Price Forecasting in Sri Lanka Using Econometric and Deep Learning Models <i>H.H.A.P. Hemantha, D.N.L.S. Uduwage, R.K. Shiwakoti, K.G.A.S. Waidyasekara</i>
04.40 PM - 04.50 PM	S18133: Impact of Digital Payment Methods on Greenhouse Gas Emissions: Evidence from Asian Economies <i>K.G.H.M. Senevirathna, N.P.Y.R. Kumarasiri, A.P.H.D.C.I. Minirankotuwa, P.D.P.S. Pallewela, W. Weerathunga, D.D. Silva</i>
04.50 PM - 05.00 PM	S18088: FPM Sentinel: A Data-Driven Facility Performance Management Dashboard for The Sri Lankan Built Environment <i>M.N.S. De Silva, H.W.N. Madhusanka, K.A.D.M. Natasha</i>
05.00 PM - 05.30 PM	Q&A

Session Coordinator: Ms. Nishadi Nanayakkara

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 2C

Theme	Housing, Urban Space Designs for Inclusive Communities
Session Chair	Prof. Hemanta Doloi
Venue/Time	Aquamarine 1 / 04.00 PM - 05.30 PM
Virtual	Breakout Room - Session C

Time	Paper ID, Title and Author(s)
04.00 PM - 04.10 PM	S18017: Resilient and Culturally Responsive Plantation Housing: Socio-Spatial Adaptation in Dunsinane Estate, Sri Lanka <i>K. Krishanth, V. Vidhushan</i>
04.10 PM - 04.20 PM	S18043: The Effect of House Plan Types on House Plan Transition Patterns in Upper Middle-Class Residences: Case in Aniwatte, Kandy <i>H.M.P.M.K. Wijerathne, S.M. Hirudini</i>
04.20 PM - 04.30 PM	S18044: The Impact of Location on Threshold Space Architectural Character: Study of Egoda Uyana, Sri Lanka <i>S.I. Rajapakse, M. Hirudini</i>
04.30 PM - 04.40 PM	S18050: Influence of Personal Space on Privacy-Related Psychological Comfort in Migratory Settlements: A Case Study of Muththettugala, Kurunegala <i>W.M.S.S. Dissnayake, S. M. Hirudini</i>
04.40 PM - 04.50 PM	S18052: Harnessing Socio-Cultural Practices of Shanty Dwellers for Inclusive Urban Development in Sri Lanka: Evidence from Wattala <i>H.M.O.V Herath, M.W.R. Thathsara</i>
04.50 PM - 05.00 PM	S18085: Incremental Retrofitting and Material - Space Adaptation in Plantation Line Housing: Evidence from a Wet-Zone Settlement in Sri Lanka <i>M.S.M. Senarathna, A. Hettiarachchi</i>
05.00 PM - 05.30 PM	Q&A

Session Coordinator: Ms. Vithusha Aathithan

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 2D

Theme	Construction Business, Entrepreneurship & Project Delivery
Session Chair	Prof. (Mrs.) Thanuja Ramachandra
Venue/Time	Aquamarine 2 / 04.00 PM - 05.30 PM
Virtual	Breakout Room - Session D

Time	Paper ID, Title and Author(s)
04.00 PM - 04.10 PM	S18143: The Mind Behind the Machine: Mapping Personality-Based Traits to Entrepreneurial Decision-Making in Construction SMEs <i>K.M. Pulasinghe, G.H.S.P. De Silva, A.A.D.A.T. Vihindhuni, A.O. Lokuge</i>
04.10 PM - 04.20 PM	T18087: A Conceptual Management Framework for Resource and Financial Optimisation of Construction SMES in Sri Lanka <i>A.W.G.S.B. Amaradiwakara, K.A.K. Devapriya</i>
04.20 PM - 04.30 PM	T18096: Significance of Joint Venture Enterprises for the Development of Construction Industry of Sri Lanka <i>Y.M.W.H.M.R.R.L.J.B Kiridana, M.D.T.E Abenayake</i>
04.30 PM - 04.40 PM	S18114: Early Contractor Involvement in a Developing Country Context: Public - Private Sector Differences and Emerging Variants <i>H.D.A.S Kumari, D.N. Abeynayake, S. Piranavan</i>
04.40 PM - 04.50 PM	S18145: Building Resilience: Navigating the Barriers of Innovation in Construction SMEs of Sri Lanka <i>N.L.A. Nissanka, G.H.S.P. De Silva, R. Ahila</i>
04.50 PM - 05.00 PM	T18136: Digital Transformation in Large-scale Construction: A Real-world Implementation <i>S.I. Mahawatta, K.G.A.S Waidyasekara, P.H.G.M.A Ranasinghe</i>
05.00 PM - 05.30 PM	Q&A

Session Coordinator: Ms. Gheethanjali Balasubiramaniam

DETAILED SESSION PLAN

FRIDAY, 10 JULY 2026

SESSION 2E (Hybrid)

Theme	Digital Transformation for Regenerative Construction
Session Chairs	Dr. Mohan Siriwardhana and Dr. Michele Florencia Victoria
Venue/Time	Jade / 04.00 PM - 05.40 PM
Virtual	Breakout Room - Session E

Time	Paper ID, Title and Author(s)
04.00 PM - 04.10 PM	S18101: BIM Consultancy Cost Formation in Design-Stage Public Projects: Evidence from Vietnam <i>M.L. Vu, T.Q. Nguyen</i>
04.10 PM - 04.20 PM	S18040: A Theoretical Framework for the Adoption of Artificial Intelligence Technologies in the Construction Industry <i>R. Li, B.L. Oo, B.T.H. Lim</i>
04.20 PM - 04.30 PM	T18081: A Framework for the Parametric BIM Implementation and Design Automation in Transportation Infrastructure Projects in India <i>M. Kumar, S. Loganathan</i>
04.30 PM - 04.40 PM	T18093: Development of A Blockchain-Enabled Smart Contract Framework for Linear Construction Projects <i>A.A. Nair, P. Prabu</i>
04.40 PM - 04.50 PM	S18019: A Review of Building Information Modelling (BIM) Research in New Zealand Academia from 2010–2025 <i>M.A. Rahman</i>
04.50 PM - 05.00 PM	S18167: A Methodology for Selecting a Digital Twin Platform for Application Development in Construction <i>B.P. Arsecularatne, N. Rodrigo, R. Chang</i>
05.00 PM - 05.10 PM	S18039: Digitalising Urban Drainage Systems: Barriers and Implications for Vietnam <i>V. Mai, T.Q. Nguyen</i>
05.10 PM - 05.40 PM	Q&A

Session Coordinator: Mr. Lakshitha Bandaranayake

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 3A

Theme	Bio-based and alternative Construction Materials
Session Chair	Dr. Tharusha Ranadewa
Venue/Time	Tanzanite 1 / 09.00 AM - 10.30 AM
Virtual	Breakout Room - Session A

Time	Paper ID, Title and Author(s)
09.00 AM - 09.10 AM	S18023: Comparative Field Performance of Organic and Commercial Preservatives Against Blue Stain Fungi in Pinewood <i>L.R. Rathuge, I.S. Hewage, M.S. Mendis, R.U. Halwatura</i>
09.10 AM - 09.20 AM	S18031: Integrating Material Performance and Pedestrian Experience in Sri Lanka: A Review of Bio-Based Wood-Clay Composites in Landscape Architecture <i>K.P.S. Amandi, A.A. Hettiarachchi, U.P. Nawagamuwa</i>
09.20 AM - 09.30 AM	S18094: Performance Evaluation of Wood-Based Additives in Asphalt Binder: A Comparative Study <i>P.K.V.M. Senevirathne, J.M. D. Ashen, T. D. Perera, R. L. H. Gunawardena</i>
09.30 AM - 09.40 AM	T18078: Material Innovation as a Cultural Material Practice: Coconut Based Product Design for Regenerative Futures <i>C.P. De Silva</i>
09.40 AM - 09.50 AM	T18108: Iron Slag Substitution in Soil-Based Geopolymers: A Comparative Study with Coal Fly Ash for Non-Load Bearing Applications <i>R.K.N.P. Piyasena, M.F.F. Farha, I.S. Hewage, S.M. Young, R.U. Halwatura</i>
09.50 AM - 10.00 AM	T18076: Applicability Of Autoclaved Aerated Concrete (AAC) Blocks Compared to Conventional Bricks and Blocks Within the Sri Lankan Context <i>N.T. Pawani, J.K.D.D.T. Jayanetti, D.P. J.D. Ranasinghe</i>
10.00 AM - 10.30 AM	Q&A

Session Coordinator: Mr. Charuka Deshan

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 3B

Theme	Circular Economy Governance and Implementation
Session Chair	Ch.QS Indunil Seneviratne
Venue/Time	Tanzanite 2 / 09.00 AM - 10.30 AM
Virtual	Breakout Room - Session B

Time	Paper ID, Title and Author(s)
09.00 AM - 09.10 AM	S18120: Enhancing Circularity in Steel Structures Through Design for Deconstruction: Information Needs <i>K. Guruge, K.G.A.S. Waidyasekara, R.M. A.S. Manewa, H.S. Jayasena</i>
09.10 AM - 09.20 AM	S18110: Convergence of Circular Economy Strategies for Sustainable Timber Usage in Sri Lanka <i>T. Wijesinghe, Y.G. Sandanayake, J.K.D.D.T. Jayanetti, B.A.K.S. Perera</i>
09.20 AM - 09.30 AM	S18115: Legislation Provisions for Circular Economy Implementation in the Construction Industry in the Sri Lankan Jurisdiction <i>M.D.T.E. Abeynayake, B.A.K.S. Perera, T.B. Abeysekara, P. Mahanamahewa</i>
09.30 AM - 09.40 AM	S18132: Role of Regulations and Governance in the Circular Economy for Construction: A Comparative Analysis <i>S.M.S.S. Attanayaka, I.E. Illeperuma, M.D.T.E. Abeynayake</i>
09.40 AM - 09.50 AM	S18138: Stakeholder Influence and Roles on Circular Economy Adoption in the Sri Lankan Construction Industry <i>H.D.T Jayasinghe, D.N Abenayake, V. Aathithan</i>
09.50 AM - 10.00 AM	S18163: Cost Impacts of Circular Applications to Construction Activities: A Case of Sri Lanka <i>M.A.A. Udayangani, T.Ramachandra, S. Piranavan</i>
10.00 AM - 10.30 AM	Q&A

Session Coordinator: Mr. Heshan Bandara

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 3C

Theme	Procurement in Construction
Session Chair	Dr. Dilani Abeynayake
Venue/Time	Aquamarine 1 / 09.00 AM - 10.20 AM
Virtual	Breakout Room - Session C

Time	Paper ID, Title and Author(s)
09.00 AM - 09.10 AM	S18059: Beyond Functionality: The Gap Between Materiality and Compensatory Expectations in Eprocurement <i>Y.K. Delpachitra, H.S. Jayasena, C. Wijekoon</i>
09.10 AM - 09.20 AM	S18126: Identifying Corruption Risks in Public Construction Procurement: A Stage-based Framework Aligned with the RIBA Plan of Work <i>M.M.H. Chanuka, P.L.I. Wimalaratne</i>
09.20 AM - 09.30 AM	S18135: Identifying Factors Influencing Construction Material Procurement Performance Through Latent Dirichlet Allocation Analysis <i>H.H.A.P. Hemantha, K.G.A.S. Waidyasekara, D.N.L.S Uduwage</i>
09.30 AM - 09.40 AM	S18079: Barriers To Smart Procurement Implementation in the Sri Lankan Construction Sector: An Empirical Investigation <i>G.C.K. Wijayawardhana, K. Thiruchelvam, D.N.L.S Uduwage</i>
09.40 AM - 09.50 AM	S18169: Exploring Cost Estimation Accuracy and Its Implications for Cost Overruns and Delays in Small-Scale Construction Projects: Evidence from Sri Lanka <i>J.W. Mesthrige, L.H.U.W. Abeydeera, T. Maqsood, G.G.N Chandani</i>
09.50 AM - 10.20 AM	Q&A

Session Coordinator: Mr. Maneesha Ranasinghe

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 3D

Theme	Construction Costing & Tendering
Session Chairs	Snr. Prof. Kanchana Perera
Venue/Time	Aquamarine 2 / 09.00 AM - 10.30 AM
Virtual	Breakout Room - Session D

Time	Paper ID, Title and Author(s)
09.00 AM - 09.10 AM	S18097: A Systematic Review to Investigate the Root Causes for variations in Infrastructure Developments <i>E. Kithulgodage, U. Kulatunga</i>
09.10 AM - 09.20 AM	S18038: Factors Influencing the Probability of Winning a Bid in the Sri Lankan Construction Tendering Process <i>S. Sayanthan, K. Thiruchelvam, D.N.L.S. Uduwage</i>
09.20 AM - 09.30 AM	S18161: Critical Criteria Influencing the Selection of Bid Evaluation Mechanisms under the Most Economically Advantageous Tender (MEAT) <i>D.N.L.S. Uduwage, K. Thiruchelvam, H.H.A.P Hemantha, K. Panuwatwanich</i>
09.30 AM - 09.40 AM	S18046: Typological Synthesis of Cost Overrun Determinants in Road Construction Using “K-Means”: A Narrative Synthesis <i>K.N. Hettiarachchi, U. Kulatunga, D.N.L.S. Uduwage</i>
09.40 AM - 09.50 AM	S18142: Industry Readiness for Inflation Adjusted Data Driven Cost Estimation in Sri Lankan Construction Industry <i>H.M.S.P. Herath, K. Thiruchelvam, D.N.L.S. Uduwage</i>
09.50 AM - 10.00 AM	S18075: Assessment Of Material Wastage and Material Reconciliation Practices in Sri Lankan Road Construction Projects <i>G.H.D. Thamodhya, C. Handiwattage, H.D. Subhasingha</i>
10.00 AM - 10.30 AM	Q&A

Session Coordinator: Mr. Lakshitha Bandaranayake

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 3E (Hybrid)

Theme	Governance, Procurement and Construction Business Innovation
Session Chair	Prof. Thayaparan Gajendran and Dr. Navodana Rodrigo
Venue/Time	Jade / 09.00 AM - 10.40 AM
Virtual	Breakout Room - Session E

Time	Paper ID, Title and Author(s)
09.00 AM - 09.10 AM	S18003: Key Issues and Root Causes in Pre-project Property Selling: A Comparative Analysis Between Indonesia and Malaysia <i>S. Hansen, N. Shaqman, L. Darmiyanti</i>
09.10 AM - 09.20 AM	S18021: Statutory Good Faith as a Governance Tool: Reforming Infrastructure Delivery and Curbing Corruption in Africa <i>A. Aderibigbe, N. Umeokafor, Y. Upadhyay, T. Umar</i>
09.20 AM - 09.30 AM	S18032: Managing Foreign Labour in Malaysia's Construction Sector: Practices and Constraints <i>S. Sanmargaraja, A. Olanrewaju, M.A. Ali, H.C. Chu, S.C. Khor, V. Ponniah, G. Kanniyapan</i>
09.30 AM - 09.40 AM	S18036: From Strategy to Practice: Implementing Sustainable Procurement in Construction SMEs – A Systematic Review <i>A. Sivakumar, A. Staal, I. Piri</i>
09.40 AM - 09.50 AM	S18083: Mapping Infrastructure Finance Research in Africa's Built Environment: A Bibliometric Review <i>M.A. Ogungbe, C.O. Aigbavboa, A.E. Oke, M. Ikuabe, G.T. Aregbesola, T.V. Ogunade</i>
09.50 AM - 10.00 AM	S18168: Value Creation in the Construction Industry: A Scoping Review <i>P.Y. Weerakoon, M.K.C.S. Wijewickrama, A. Samaraweera, J.J. Ochoa</i>
10.00 AM - 10.10 AM	S18130: Reimagining Procurement for Domestic Construction Clients <i>P.J. Gamage, C. Hadiwattege</i>
10.10 AM - 10.40 AM	Q&A

Session Coordinator: Ch. QS. Dilshan Akalanka

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 4A

Theme	Sustainability Transitions in Construction
Session Chair	Dr. Sachie Gunathilaka
Venue/Time	Tanzanite 1 / 11.00 AM - 12.20 PM
Virtual	Breakout Room - Session A

Time	Paper ID, Title and Author(s)
11.00 AM - 11.10 AM	S18129: Theft and Vandalism in Infrastructure Construction-A Review of Sustainability Impacts <i>P.L.T.T. Thilakasiri, K.G.A.S. Waidyasekaraa, P.H.G.A. Ranasinghehe</i>
11.10 AM - 11.20 AM	S18006: Circular Economy Policy Framework for Promoting Sustainable Construction Practices in Sri Lankan Construction Industry; Stakeholder Perception <i>K. Karunarathna, S. Perera, C. Kalugala</i>
11.20 AM - 11.30 AM	S18106: Exploring Porcelain Tableware Waste as a Sustainable Material for Interior Construction in Sri Lanka <i>W.M.N.D.Ranasinghe, M. M. Samitha, R. Poovahiya</i>
11.30 AM - 11.40 AM	S18077: Prioritising Construction Procurement Decision Factors for Achieving Sustainable Development <i>K. D. S. De Abrew, H. Chandanie, P.H.G.M.A. Ranasinghe</i>
11.40 AM - 11.50 AM	S18160: Sustainability Impacts of Industry 4.0 In Construction Project Management <i>W.K.R. Prasadinee, C. Hadiwattege, N.B. Nanayakkara</i>
11.50 PM - 12.20 PM	Q&A

Session Coordinator: Ms. Anuki Kavirathne

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 4B

Theme	Construction Governance & Project Administration
Session Chair	Ch.QS Vijitha Disaratna
Venue/Time	Tanzanite 2 / 11.00 AM - 12.20 PM
Virtual	Breakout Room - Session B

Time	Paper ID, Title and Author(s)
11.00 AM - 11.10 AM	S18035: Understanding The Status Quo of Consultant Selection in Sri Lankan Public Construction Projects <i>S. Uthayakumar, K. Thiruchelvam, D.N.L.S. Uduwage</i>
11.10 AM - 11.20 AM	S18154: Withstanding Supply Chain Vulnerabilities in Off-Site Construction Logistics: A Narrative Review and 3D Visualisation <i>W.M. D.Y. Sandaruwan, Y.G. Sandanayake, E.M.C. Ekanayake, G.A. Tennakoon</i>
11.20 AM - 11.30 AM	S18131: Adoption of Plain Language to Sri Lankan Construction Contracts: A Narrative Review <i>K. Thiruchelvam, D.N.L.S. Uduwage</i>
11.30 AM - 11.40 AM	S18139: Effectiveness of Tax Administration with Respect to the Construction Industry in Sri Lanka <i>R. Siriwardhana, N. Gunarathana, S. Vivek</i>
11.40 AM - 11.50 AM	S18069: A Bibliometric Analysis of Dynamic Organisational Capabilities and Hybrid Project Management Research in the Construction Industry <i>S.N. Perera, L.V.K. Jayatilake, U. Kulatunga</i>
11.50 PM - 12.20 PM	Q&A

Session Coordinator: Ms. Vithusha Aathithan

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 4C

Theme	Green implications in Built Environment
Session Chair	Mr. Mahesh Abeynayake
Venue/Time	Aquamarine 1 / 11.00 AM - 12.20 PM
Virtual	Breakout Room - Session C

Time	Paper ID, Title and Author(s)
11.00 AM - 11.10 AM	S18089: The Need for Reforming Green Rating Systems for Hospitals in Sri Lanka <i>H.W.A.G. Madhuwantha, P. Sridarran., M.N.U. Maddakandage</i>
11.10 AM - 11.20 AM	S18164: Enhancing Green Achievement: An Emphasis on Design Features <i>S.A.C. Kavindi, T. Ramachandra, B. Gheethanjali</i>
11.20 AM - 11.30 AM	S18092: Physicochemical Characterisation of Polyester and Nylon Synthetic Fibres as Potential Plant Growth Substrates for Green Roof Systems: A Preliminary Study <i>I.S. Hewage, H. K. P. Ruwanthika, R.K.N.P. Piyasena, T.A. Perera, A. Satharasinghe, A. Gunawardena, R.U. Halwatura</i>
11.30 AM - 11.40 AM	S18148: Barriers to Use of LeAgile Project Management for Stakeholder Collaboration in Green Building Constructions in Sri Lanka <i>H.V.D. Perera, B.A.K.S. Perera, M.M.N. Mannapperuma</i>
11.40 AM - 11.50 AM	S18054: Cognitive Framework for Lighting Design: Perceptions from Contemporary Sri Lankan Architects <i>L.P. Balapitiya, N.G.R. Perera</i>
11.50 PM - 12.20 PM	Q&A

Session Coordinator: Ch. QS. Dilshan Akalanka

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 4D

Theme	Research and Education in the Built Environment
Session Chairs	Prof. Menaha Thayaparan
Venue/Time	Aquamarine 2 / 11.00 AM - 12.20 PM
Virtual	Breakout Room - Session D

Time	Paper ID, Title and Author(s)
11.00 AM - 11.10 AM	S18070: Operationalising Community-Based Research Through Photovoice <i>W.S.D. Perera, U. Kulatunga, D. Ranasinghe, R. Mahamood, N. Kangana, C. De Silva</i>
11.10 AM - 11.20 AM	S18100: Reframing The Inclusive Classroom as a Designed Learning Environment: An Integrative Literature Review <i>A.I. Sewwandi, S. Samarawickrama</i>
11.20 AM - 11.30 AM	T18071: Digital System for Effective End-User Engagement in Higher Education Building Design <i>F.S. Nazeer, I. Kamardeen, A. Hasan</i>
11.30 AM - 11.40 AM	S18066: Academic Workload and Mental Wellbeing: Perspectives of First-Year Quantity Surveying students at higher education institutions in Sri Lanka <i>J.D.R.A. Jayakody, K. Thiruchelvam, D.N.L.S. Uduwage</i>
11.40 AM - 11.50 AM	S18170: A Scientometric Analysis of Construction Value Management Research: A 25-Year Review <i>L.H.U.W. Abeydeera, W.M. Jayantha, T. Maqsood, G.G.N Chandani</i>
11.50 PM - 12.20 PM	Q&A

Session Coordinator: Ms. Himasha Subhasingha

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 4E (Hybrid)

Theme	Capacity Building for a Regenerative Built Environment
Session Chairs	Dr. Gayani Karunasena
Venue/Time	Jade / 11.00 AM - 12.20 PM
Virtual	Breakout Room - Session E

Time	Paper ID, Title and Author(s)
11.00 AM - 11.10 AM	S18004: Relationship Model of Mindfulness Practice and Construction Workers' Performance: An Exploratory Study in Indonesia <i>S. Hansen</i>
11.10 AM - 11.20 AM	S18095: Distance Is No Barrier: Drivers of the Deployment of Remote Construction Management for Project Delivery in South Africa <i>M. Ikuabe, C. Aigbavboa, M. Ogunbe, T. Aregbesola, T. Ogunade</i>
11.20 AM - 11.30 AM	S18165: Enhancing High-performance Computing (HPC) Adoption in the Built Environment: A User-centred Approach to Inclusive Digital Innovation <i>T. Umar, K. Chun, J. Smith</i>
11.30 AM - 11.40 AM	S18147: International Students' Decision-Making and Learning Experience in Construction Management Coursework Master's Degree <i>B.L. Oo, R. Li, B.T.H. Lim</i>
11.40 AM - 11.50 AM	S18150: Integrating Life Cycle Assessment and Emissions Trading Scheme in the Australian Construction Sector: A Preliminary Study <i>P. Yang, B.T.H. Lim, B.L. Oo</i>
11.50 PM - 12.20 PM	Q&A

Session Coordinator: Mr. Kawshalya Sepalage

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 5A

Theme	Regenerative Design, Culture & Community-Based Built Environments
Session Chair	Dr Amruta Garud
Venue/Time	Tanzanite 1 / 01.30 PM - 2.50 PM
Virtual	Breakout Room - Session A

Time	Paper ID, Title and Author(s)
01.30 PM - 01.40 PM	S18018: Schoolyards As Built Infrastructure: A Feasibility Framework for Closing Environmental Education Implementation Gaps <i>E. Mendis, M. Thayaparan, D. Lellupitiya</i>
01.40 PM - 01.50 PM	S18028: Temporary Built Environments in Sri Lankan Film Production Design <i>S. Fernando, S. Samarawickrama</i>
01.50 PM - 02.00 PM	S18049: Landscape as a Signifier of Rural Social Class Inequality in Contemporary Sri Lankan Cinema: An Analytical Study of Three Selected Films <i>P.T. Kolamunna, U.G.D. Weerasinghe, S.M. Hirudini</i>
02.00 PM - 02.10 PM	S18051: Maritime Infrastructure Impacts on Marine Socio-Ecological Systems: A Literature Review <i>S.J.L. Madhushani, K.A.T.O. Ranadewa, B.A.K.S. Perera</i>
02.10 PM - 02.20 PM	S18072: Regional Identity and Regenerative Architecture: Reinterpreting Buddhist Philosophy in Contemporary Built Environments <i>G.R.K.A.G. Menike, K. Perera</i>
02.20 PM - 02.50 PM	Q&A

Session Coordinator: Mr. Maneesha Ranasinghe

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 5B

Theme	Construction Safety and Well-being
Session Chair	Dr. Uthpala Rathnayaka
Venue/Time	Tanzanite 2 / 01.30 PM - 2.40 PM
Virtual	Breakout Room - Session B

Time	Paper ID, Title and Author(s)
01.30 PM - 01.40 PM	S18001: The Financial and Social Implications of Construction Site Accidents in Sri Lanka <i>H.R. Fernando, U. Kulatunga, B. Gheethanjali, N. Gunawardhana</i>
01.40 PM - 01.50 PM	S18064: Artificial Intelligence (AI)-Powered Gesture Recognition for Occupational Safety Improvement in the Sri Lankan Construction Industry: A Conceptual Framework <i>R. Thathsara, H. Mallawaarachchi</i>
01.50 PM - 02.00 PM	S18156: Occupational Stressors among Sri Lankan Construction Professionals <i>S.D.N.B. Peiris, S. Gunatilake, I.W.M.A.D. Ilangakoon</i>
02.00 PM - 02.10 PM	S18026: Remote Work for Female Professionals in Sri Lankan Construction Industry: Challenges and Expectations <i>Y.B.M.C.S. Kumarihami, K. Thiruchelvam, D.N.L.S. Uduwage</i>
02.10 PM - 02.40 PM	Q&A

Session Coordinator: Ms. Nawanjana Mannapperuma

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 5C

Theme	Climate Resilience & Disaster Risk Management
Session Chair	Dr. Kapila Devapriya
Venue/Time	Aquamarine 1 / 01.30 PM - 2.50 PM
Virtual	Breakout Room - Session C

Time	Paper ID, Title and Author(s)
01.30 PM - 01.40 PM	S18105: Microclimate Aware Urban Planning in Tropical Climates <i>J.S. Nimesha, U. Kulatunga, H.D. Subhasingha</i>
01.40 PM - 01.50 PM	S18155: Deep Learning-based Flood Mapping in Monsoon Climates Using SENTINEL-1 SAR <i>A. Bhattarai, R.K. Shiwakoti, D.N.L.S. Uduwage</i>
01.50 PM - 02.00 PM	S18166: What Enables Climate-responsive and Resource-efficient Office Buildings in a Small Island Developing State? A Stakeholder-weighted Readiness Gap Analysis <i>S.B. Nahullah, N. Fernando, M. Jowkar</i>
02.00 PM - 02.10 PM	S18152: Optimizing Community Participation in Post-Disaster Crisis Response: Evidence From the “Ditwah” Cyclone, Sri Lanka <i>J.A.C.D Jayalath, U. Kulatunga</i>
02.10 PM - 02.20 PM	S18137: Nature-based Solutions for Flood Mitigation: A Systematic Review of Evidence, Performance Mechanisms, and Implementation Conditions <i>R.V.A.D. Rahubadda, B. Ingirige, U. Kulatunga</i>
02.20 PM - 02.50 PM	Q&A

Session Coordinator: Ms. Himasha Subhasingha

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 5D

Theme	Nature-Inspired Approaches in Construction
Session Chairs	Dr. Nuwantha Uduwage
Venue/Time	Aquamarine 2 / 01.30 PM - 2.50 PM
Virtual	Breakout Room - Session D

Time	Paper ID, Title and Author(s)
01.30 PM - 01.40 PM	S18073: Exploring Multi-Level Biomimicry in Building Façade Construction <i>M.D.K.S. Bandara, U. Kulatunga, H.D. Subhasingha</i>
01.40 PM - 01.50 PM	S18080: Learning from Nature: Biomimicry Inspired Daylighting Design for Reducing Artificial Lighting in Urban Buildings <i>P.A.D.D.J. Weeranayaka, R.M.H.R Bandara, M. Thayaparan</i>
01.50 PM - 02.00 PM	S18123: Performance Indicators for Biomimicry-based Construction Materials and their Operationalization through Augmented Reality: A Systematic Literature Review <i>W.M.I.H. Wijesundara., U. Kulatunga, P.L.I. Wimalaratne</i>
02.00 PM - 02.10 PM	S18112: A Conceptual Biomimicry-Inspired Model for Enhancing Energy Efficiency in High-Rise Buildings in Sri Lanka. <i>S.B.N.S.W. De Silva, P. Sridarran, M.N.U. Maddakandage</i>
02.10 PM - 02.20 PM	S18107: Managing End-of-Life Impacts of Solar Photovoltaic Systems: A Sri Lankan Perspective <i>U. Jayanandana, G.A. Tennakoon, D. Kodituwakku, M. Chan</i>
02.20 PM - 02.50 PM	Q&A

Session Coordinator: Ms. Nishadi Nanayakkara

DETAILED SESSION PLAN

SATURDAY, 11 JULY 2026

SESSION 5E (Hybrid)

Theme	Sustainable Constructions and Climate-Responsive Designs
Session Chair	Associate Prof. Niluka Domingo
Venue/Time	Jade / 01.30 PM - 2.50 PM
Virtual	Breakout Room - Session E

Time	Paper ID, Title and Author(s)
01.30 PM - 01.40 PM	S18010: Smart Building Technologies in Qatar: Challenges and Opportunities for Sustainable Development <i>A.R. Rauff, R. Sofar</i>
01.40 PM - 01.50 PM	T18027: Evaluating the Thermal Performance of Various Vernacular Roofing Systems in Contemporary Buildings <i>T.S. Prakash, K. Murugkar</i>
01.50 PM - 02.00 PM	S18029: Conceptualising an Inclusive Compliance Approach to Sustain Energy Efficiency of New Single-Family Homes <i>N.D. Hulathdoowage, G. Karunasena, N. Udawatta, P. Harrington, C. Liu</i>
02.00 PM - 02.10 PM	S18005: Bridging the Gap: Professional Perceptions and Adoption of Mud Construction Techniques in Nigerian Urban Architecture <i>A.O. Comfort, G. Emmanuel</i>
02.10 PM - 02.20 PM	S18053: Microclimate-Driven Spatial Patterns for Adaptive Urban Design: Evidence from Kotahena, Sri Lanka <i>D. Kumar, N. Perera</i>
02.20 PM - 02.50 PM	Q&A

Session Coordinator: Mr. Heshan Bandara

KEYNOTE SPEAKER

Dr Josephine Vaughan



Keynote on ‘From Extraction to Circulation: Rethinking Cities as Sources of Building Materials’

Dr Josephine Vaughan is a Senior Lecturer in the built environment and a recognised leader in sustainable and regenerative construction research. Her work sits at the intersection of circular economy, embodied carbon, low impact building materials and industry engaged innovation, with a strong focus on translating foresight into practical, scalable action. Dr Vaughan has led more than 15 major industry funded research projects in collaboration with government, industry and international partners, producing academic and industry publications that inform policy, practice and education. She co leads the Circular Economy and Sustainable Construction Research Group at the University of Newcastle, Australia and is a co chair of Materials and Assemblies in the Materials and Embodied Carbon Leaders’ Alliance (MECLA), supporting interdisciplinary collaboration across the built environment sector. Her research and leadership have been recognised through multiple awards, including the Trailblazer for Recycling and Clean Energy (TRaCE) Fellowship, Global Engagement Awards and UNITAR CIFAL United Nations certifications, reflecting her commitment to capacity building and systemic change in construction practices worldwide. She is also actively involved in international knowledge exchange initiatives across Asia-Pacific, including climate resilient and net zero infrastructure programs.

ROUNDTABLE BRAINSTORMING

CIB TG129–W107 WCS ROUNDTABLE BRAINSTORMING

Sustainable Supply Chains for Resilient Construction Industries in Developing Countries

- Panel Members** : **Associate Prof. Hemanta Doloi** (W107 Lead Coordinator) – Construction Management & Technology, Faculty of Architecture, Building and Planning, University of Melbourne, Australia
Senior Prof. Ananda Jayawardane – Faculty of Engineering, University of Moratuwa, Sri Lanka
Dr Josephine Vaughan – College of Engineering, Science and Environment, The University of Newcastle, Australia
Ch.QS. Lalith Rathnayake – Chartered Quantity Surveyor, Contract Management Consultant, Director - VFORM Consultants Private Ltd and PROMAP Private Ltd, Sri Lanka
- Panel Moderator** : **Prof. Mohan Kumaraswamy** – Honorary Professor, University of Hong Kong and Honorary Professor, University of Moratuwa
- Thematic Summary Contributor** : **Dr. Suranga Jayasena** (TG129 Lead Coordinator) – Head of the Department, Department of Building Economics, University of Moratuwa, Sri Lanka

Panel Member



Associate Prof. Hemanta Doloi

PhD (Sydney), Grad. Cert. (Melbourne), MSc (AIT), BSc Hons (Dibrugarh)

Associate Professor and Lead Investigator (Assam Project)

Director and Project Leader (Smart Villages Lab)

**Lead Coordinator- CIB Working Commission W107 on Construction in
Developing Countries**

Associate Prof. Hemanta Doloi is an Associate Professor specialising in Project and Construction Management, with internationally recognised expertise in project management, infrastructure planning and policy, and construction economics and management. He has an outstanding research record, publishing extensively in leading international journals. He established a new research facility, Smart Villages Lab (SVL) at the University of Melbourne, supporting sustainable rural development in partnership with the Government of Assam. His work integrates governance, construction management, and technology to improve rural communities. In recognition of his excellence in research and teaching, he received the prestigious AIQS Infinite Value Award in 2012.

Panel Member



Senior Prof. Ananda Kithsiri Wijenayaka Jayawardane

BSc Eng Hons (Moratuwa), MSc (Loughborough, UK),

PhD (Loughborough, UK), MSSE (SL), FNASSL, FIPM (SL),

CEng, FIE(SL), Int.PEng (SL), M (SLAAS), GSLID

Professor Ananda Jayawardane is currently a Senior Professor in Civil Engineering at the University of Moratuwa and a Director of Bank of Ceylon, HNB Life PLC, Prime Land Residencies PLC and Mother Lanka Foundation. He is the former Chairman of the Commercial Bank of Ceylon PLC, a past Vice-Chancellor of the University of Moratuwa, a past Chairman of the Committee of Vice-Chancellors, a past Director General of the National Science Foundation, a past Commission Member of the University Grants Commission, past NDB Bank Endowed Professor in Entrepreneurship at the University of Moratuwa, and a Past President of the Institution of Engineers, Sri Lanka.

He is a Chartered Engineer, an International Professional Engineer, and a Fellow of several other professional and scientific bodies.

He has served as a member of the governing Councils/Boards of several other private and public institutions including ICTAD, CIDA, State Engineering Corporation, Engineering Council and Green Building Council of Sri Lanka. He is a recipient of several awards for his research, contribution to education including the “eminence in the practice of engineering” the most prestigious lifetime award given by the IESL.

Panel Member



Dr Josephine Vaughan

PhD Architecture (Newcastle 2017), B.Arch (Newcastle 1999), Grad. Cert. ESD (TAFE NSW 2009), BSc Architecture (Sydney 1998)

Senior Lecturer

College of Engineering, Science and Environment

The University of Newcastle on Awabakal land: Callaghan, Australia

Dr Josephine Vaughan is a Senior Lecturer in the built environment and a recognised leader in sustainable and regenerative construction research. Her work sits at the intersection of circular economy, embodied carbon, low-impact building materials and industry-engaged innovation, with a strong focus on translating foresight into practical, scalable action. Dr Vaughan has led more than 15 major industry-funded research projects in collaboration with government, industry and international partners, producing over academic and industry publications that inform policy, practice and education. She co-leads the Circular Economy and Sustainable Construction Research Group at the University of Newcastle, Australia and is a co-chair of Materials and Assemblies in the Materials and Embodied Carbon Leaders' Alliance (MECLA), supporting interdisciplinary collaboration across the built environment sector. Her research and leadership have been recognised through multiple awards, including the Trailblazer for Recycling and Clean Energy (TRaCE) Fellowship, Global Engagement Awards and UNITAR-CIFAL United Nations certifications, reflecting her commitment to capacity-building and systemic change in construction practices worldwide. She is also actively involved in international knowledge exchange initiatives across the Asia-Pacific, including climate-resilient and net-zero infrastructure programs.

Panel Member



Ch. QS. Lalith Ratnayake

Senior Chartered Quantity Surveyor

Contract Management Consultant

Director, VFORM Consultants Private Ltd. and PROMAP Private Ltd.

Ch.QS Lalith Ratnayake obtained the B.Sc. (Hons) QS degree in 1992 and M.Sc. in Project Management in 2012 from the University of Moratuwa. He is an Accredited Mediator of the Singapore International Mediation Institute (SIMI) (Level 01).

Mr Lalith Ratnayake has his own professional practice providing specialist services in Quantity Surveying, Contracts Management and Dispute Mediation.

He is a Fellow member of the Institute of Quantity Surveyors, Sri Lanka (IQSSL) and the Past President of IQSSL during 2019-2021. He is a visiting lecturer at the University of Moratuwa for M.Sc. Degree in Construction Law & Dispute Resolution. His contribution to the built environment sector includes serving as a resource person at construction industry forums, industry regulatory bodies, faculty boards at state and non-state universities, and local and overseas professional bodies. Further, he has published many technical papers related to the built environment and contributed to research.

Panel Moderator



Eng. Prof. Mohan Kumaraswamy

DSc (UK), PhD (UK), MSc (UK), BSc Engineering (Hons) Civil Eng

Honorary Professor, University of Hong Kong and Honorary Professor, University of Moratuwa

Eng. Prof. Mohan M. Kumaraswamy is now an Honorary Professor at HKU and also at the University of Moratuwa, Sri Lanka. His B.Eng. (Civil) is from Sri Lanka, while his M.Sc., Ph.D. and D.Sc. are from the UK. He was in full-time academia for 21 years at the University of Hong Kong.

Before joining full-time academia, apart from part-time teaching, he worked in a client's design & project management office, as well as with contractors in Sri Lanka and Nigeria. He then joined the first construction project management company in Sri Lanka, was Construction Manager, and then a Director, also leading construction management, training package development and consultancy projects, some funded by international organisations.

He is a Fellow of relevant professional bodies in Sri Lanka, UK and Hong Kong and a member of others in Australia, UK and USA. He has actively contributed and held high offices in professional bodies and industry link bodies in Sri Lanka and Hong Kong. He launched CICID (Centre for Innovation in Construction & Infrastructure Development) in Hong Kong in 2002. Being its first Executive Director, he now assists as its Founder Director.

In academia, he has won awards for research, teaching and research supervision. he has also led many research projects including; and publishes widely in international journals, books and conferences, He also plays leading roles in international research bodies and editorial boards. e.g., as one of three Joint Co-ordinators of the CIB Working Commission W122 on Public Private Partnership; and also as Editor-in-Chief of the Emerald Journal of Built Environment Project and Asset Management (BEPAM) which he launched in 2010; and as Editor-in-Chief of the Book Series on Domain-Specific Bodies of Knowledge in Project Management, which he launched in 2020.

Thematic Summary Contributor



Ch. QS. Dr. Suranga Jayasena

PhD, MSc (Building), BSc (Hons) QS, FIQSSL

Senior Lecturer, Department of Building Economics, University of Moratuwa

Ch. QS. Dr. Suranga Jayasena is the current head of the Department of Building Economics, University of Moratuwa and currently serving as a Senior Lecturer of the Department. He obtained a B.Sc. (Hons) degree in Quantity Surveying from the University of Moratuwa and an M.Sc. in Building from the National University of Singapore. In 2023, Dr. Jayasena completed his PhD at the University of Moratuwa, Sri Lanka. While his primary teaching area is Building Procurement, his research interests span a broader landscape, encompassing Building Economics, Procurement Systems, Dispute Resolution, and Construction Information Technology, all of which are intertwined with Building Procurement and enrich his teaching. He is a Fellow, a member of the governing council, and a Committee Chair of the Institute of Quantity Surveyors Sri Lanka (IQSSL).

SESSION BY THE CIB STUDENT CHAPTER

SESSION IN COLLABORATION BY THE CIB STUDENT CHAPTERS OF MASSEY UNIVERSITY AND THE UNIVERSITY OF MORATUWA

Towards a Regenerative Built Environment: From Foresight to Action

Speakers



Dr. Eziaku Rasheed

SFHEA, PhD (Arch), MSc (Proj.Mgt), BSc (Arch), CerBIM (Proj.Mgt)

Session Title: Connect, Learn, Lead: What the CIB Student Chapter Can Do for You

Senior Lecturer in Sustainable Built Environment; Coordinator, CIB Task Group 125: Creating an Inclusive Built Environment for Diverse Users; Massey's CIB Student Advisor (since 2020); School of Built Environment, Massey University



Associate Professor Mostafa Babaeian Jelodar

PhD (Civil.En; Const.Mng), MSc(Proj.Mgt), BEng (Civil)

Session Title: Advancing Sustainability in the Built Environment through Modern Methods of Construction and Automation

Modern Methods of Construction and Automation in Built Environment (MOCABE); Team Lead at CanConstructNZ; Associate Professor in Construction Engineering and Management; Academic Lead, School of Built Environment, Massey University

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