

CREAM

e-magazine



- CREAM Secured RM1 Million Research Grant from YTL Cement to Lead Efforts in Sustainable Construction
- How Virtual and Augmented Reality will Shape the Future of Malaysian Construction Industry
- QCLASSIC Assessment - The Statistics
- SHASSIC Assessment - The Statistics
- Highlights on October Activities

editorial team

Editor-in-chief

Ir. M. Ramuseren

Managing Editor

Ts. Intan Diyana Musa

Executive Editor

Marlia Masran

Writers/Contributing Editors

Ts. Dr. Hj. Mohd Khairolden Ghani

Mhd. Jumain Mapplati

Ahmad Shahir Mohamad

Ts. Dr. Ihfasuziella Ibrahim

Dr. Norashikin Rahmat

Nur Mariam Zuhairi

Ts. Syed Hazni Abd Gani

Farid Hafizudin Zamry

Syed Hamad Naguib Syed Azmi

Muhamad Azam Azmai

Ts. Yuzairy Rozaidi Rohaizan



about us

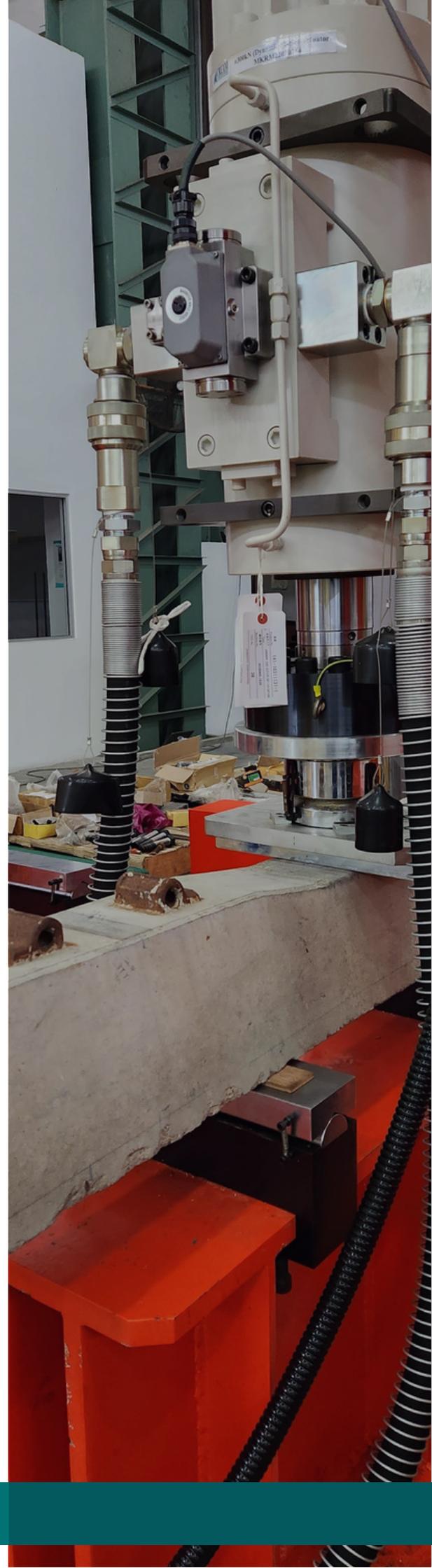
Construction Research Institute of Malaysia (CREAM) was established on 26 March 2004 as a Company Limited by Guarantee (SBMJ) under the Act Company 1965. CREAM became fully operational on January 1, 2006. Establishment CREAM is to be the research arm of the Industrial Development Board Construction (CIDB) Malaysia to encourage, promote and implement activities research and development (R&D) related to the national construction industry with Section 4(c), CIDB Act 1994 (Act 520). With the ability of knowledge and existing expertise, CREAM actively cooperates with parties interested in producing research that will benefit the sector construction. At the same time, CREAM also supports the development of the industry construction in a better direction through the quality and integrity of building materials when also offers testing, evaluation and certification services to industry players. CREAM will continue to be proactive in being active and reinventing the way we in doing something, to keep giving the best to all parties and always responsive to our customers.

vision

To meet the strategic needs of Research and Development in the Malaysian construction industry. CREAM is also committed to build partnerships with the industry's stakeholders and researchers while exploring and encouraging the development of a knowledge-based industries as well as ready to meet current demands and challenging changes.

mission

To make CREAM globally recognized as the leading institute for Research and Development (R&D) that drives quality, innovation, technology and skills towards achieving sustainability in the construction industry.



what we offer

- Research and Development
- Industry Consultancy and Engagement
- Lab Testing
- Product Certification
- Assessments - QLASSIC, SHASSIC, MyCREST and Sustainable Infrastar
- Certificate of Approval
- Inspection and Sampling
- Contractor's Quality Management System (CQMS)
- Forensic Investigation
- Technical Opinion
- Journal Publication



contents

05

**CREAM SECURED RM1
MILLION RESEARCH GRANT
FROM YTL CEMENT TO LEAD
EFFORTS IN SUSTAINABLE
CONSTRUCTION**

12

**SHASSIC ASSESSMENT -
THE STATISTICS**

07

**HOW VIRTUAL AND
AUGMENTED REALITY WILL
SHAPE THE FUTURE OF
MALAYSIAN
CONSTRUCTION
INDUSTRY**

13

**HIGHLIGHTS ON OCTOBER
ACTIVITIES**

11

**CLASSIC ASSESSMENT -
THE STATISTICS**

35

UPCOMING EVENTS



CREAM Secured RM1 Million Research Grant from YTL Cement to Lead Efforts in Sustainable Construction



The RM1 million research grant secured by CREAM from YTL Cement represents a significant step towards advancing sustainable construction practices. This funding follows the Memorandum of Understanding (MoU) signed between the two organisations in April, which underscores our joint commitment to promote construction excellence and facilitate the industry's transition towards sustainability.

The MoU between CREAM and YTL Cement is a clear demonstration of our dedication to various aspects of the construction industry, including personnel development, research, innovation, and the promotion of sustainable construction practices. This collaboration marks the beginning of a productive partnership among industry players with the collective goal of achieving construction excellence through increased focus on sustainability-focused research and development initiatives.

CREAM and YTL Cement are dedicated to fostering positive change and promoting responsible and sustainable construction practices. This collaboration should lead to valuable advancements in the industry and further the adoption of environmentally friendly and efficient construction methods.

The RM1 million research grant will be channelled to kick-start three main initiatives:

1) Construction Personnel Development

CREAM and YTL Cement will jointly design training and accreditation programmes for youths to be certified as concrete technicians and batches. This hopes to assist in attracting, retaining, and growing skilled workers in the construction industry.

2) Research & Development (R&D)

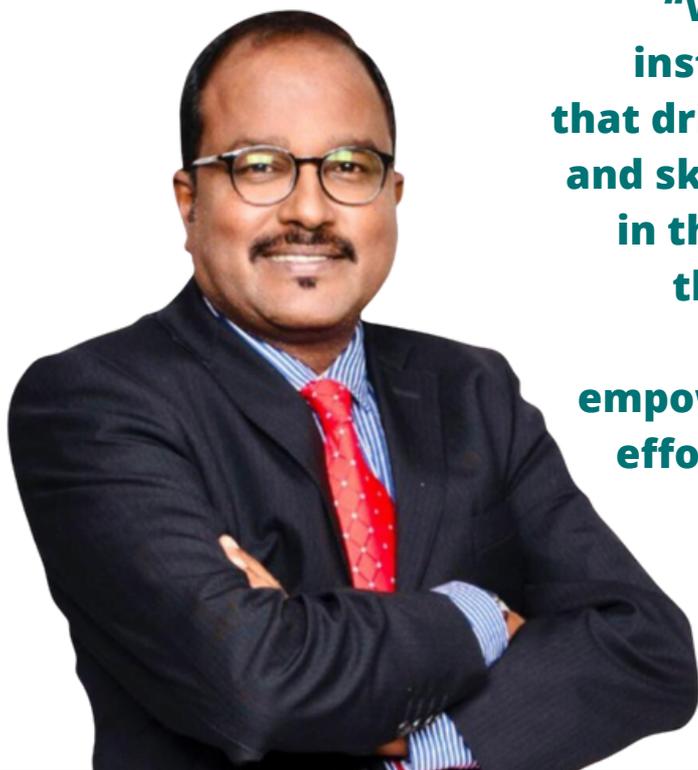
CREAM will work together with YTL Cement's team of experts to conduct R&D on lower embodied carbon alternatives in materials and construction methods.

3) Support the Construction Sector's Transition to Sustainable Construction

CREAM and YTL Cement are collaborating to facilitate the adoption of sustainable construction practices in Malaysia.

Sustainable construction is becoming increasingly important due to its potential to reduce environmental impact, improve energy efficiency, and promote more responsible construction practices. Through this grant, CREAM will have the resources to conduct research, develop innovative solutions, and promote sustainable construction practices that benefit not only the industry but also the environment.

It is a positive step towards a more sustainable and environmentally friendly construction sector, and demonstrates the commitment of YTL Cement to support initiatives that align with these goals. By joining hands, YTL Cement and CREAM hope to build Malaysia's sustainable future together.



“We aspire to be a globally recognized institute for research and development that drives quality, innovation, technology, and skills towards achieving sustainability in the construction industry. In realizing this, YTL Cement’s research grant has played a significant role in further empowering our research capabilities and efforts to meet the evolving demands of Malaysia’s construction industry.”

Ir. M. Ramuseren, Chief Executive Officer of Construction Research Institute of Malaysia (CREAM)

How Virtual and Augmented Reality will Shape the Future of Malaysian Construction Industry



*by Ts. Dr. Hj. Mohd Khairolden Ghani
and Mhd. Jumain Maplati*



The unprecedented COVID-19 crisis has severely impacted the construction industry, causing many delayed (or cancelled) projects and threatening the supply chains. Some construction companies failed to survive while others have been unable to fulfil their contracts. In the face of this sobering reality, finding approaches to reduce the adverse effects of COVID-19 in the construction industry is crucial to avoid negative economic growth that can eventually result in economic recession.

Prior to the endemic, the 12th Malaysia Plan emphasises on strengthening the construction industry's productivity and efficiency through digitalisation to spearhead the drive. Disruption in the construction industry during COVID-19 has opened a new opportunity that intensifies the direction for adopting digital technologies, including Augmented Reality (AR) and Virtual Reality (VR), in buildings and infrastructure projects. This is in line with the Construction 4.0 Strategic Plan 2021-2025, National Construction Policy 2030 (NCP2030), and 12MP.

The future for the construction industry post-pandemic has spurred the interest in AR. A recent industrial round table discussion hosted by the Construction Research Institute of Malaysia (CREAM) has reported several key takeaways. During Covid-19, digital adoption has taken a quantum leap at both the organisational and industry levels. The pandemic period taught us some hard lessons to go on fully digitalisation or face “someone left behind”. Many construction companies are still struggling with the challenges and issues arising from the Covid-19 endemic. To stay competitive in this new business and economic environment, most organisations continue accelerating the digitisation process and becoming more agile in post-pandemic.

The Government's policy on digital transformation through the implementation of CITP and CR4.0 significantly helps organisations to operate digitisation in the construction process. The participants are optimistic about any of the Government's efforts in helping the industry towards digital transformation.

Amidst the current endemic situation, the adoption of virtual technologies has become important. In streamlining projects with digital solutions, it was reported that some organisations have already embraced the journey and started to explore collaborative virtual collaborative experiences. The robust government policy on digitalisation is the catalyst helping industry players to overcome COVID-19 impacts.

As a continuity of CITP 2016-2020, the Government's commitment to digital transformation remains under the Construction 4.0 Strategic Plan 2021-2025. In 2015, Malaysia started to produce a professional/skilled workforce in digital construction through a series of Building Information Modelling (BIM) professional training programmes offered by CIDB-myBIM, a training provider centre under the Construction Industry Development Board (CIDB). Moreover, roadshows and awareness programmes were conducted nationwide to increase industry players' understanding of BIM implementation. Additionally, BIM has been embedded in Malaysia's highest education institutions (HEIs) to produce market-ready graduates.

At the national level, the 12MP emphasises the use of digital tools such as BIM and VR to increase the productivity and efficiency of the construction industry. This is supported by digital implementation initiatives in the National Construction Policy (NCP2030) and Construction 4.0 Strategic Plan 2021-2025.



Based on the robust Government's digitalisation policy, most industry players are aware of and have already institutionalised digital practices in their work process. When the COVID-19 pandemic spread worldwide and significantly affected the Malaysian construction industry, most organisations that embraced digital practice survived and organisations that implemented BIM thrived.

In the long run, responding and recovering policy would be insufficient to grow and thrive in a post-Covid-19 world; yet, digital technology proves to be a lifeline for many construction organisations. It is a fundamental change in how we work, live, and do construction business.

Despite the construction industry struggling to embrace a new normal period, there are clear business cases for adopting digital transformation (through AR/VR). However, the pandemic has widely intensified the digital divide and impacted non-digital users. Following that are issues regarding organisational readiness and potential Digital Readiness Gaps in Malaysia's construction industry. Even before the pandemic, BIM had been introduced as an essential tool for contract requirements for government and private projects, thus creating 'disruptive forces' in the Malaysian construction industry.

This resulted in only big companies with strong capabilities (technical and financial) to initiate BIM processes and could compete for BIM-based projects. In contrast, the others (especially SMEs) were largely excluded.

Digital transformation in the construction industry flourished amidst slow construction activity during the COVID-19 pandemic. The key message that Covid-19 has brought to the fore is a change in attitude towards digital tools and expediting decisions on investments in new technologies.

Furthermore, the COVID-19 pandemic forced organisations to begin digital adoption sooner than planned. The digitalisation's rationale was clear: to improve efficiency, competitiveness, and economies of scale. This has resulted in sizable positive changes and significant benefits.

On a positive note, working in the endemic era has raised awareness and increased understanding among the industry players on the importance of applying the digitisation process. With a reduced workforce and significant changes to construction projects, it is now more important than ever to adapt to the 'new normal culture' by highlighting the Recovery, Reinventing, and Redefining (3R) strategies.

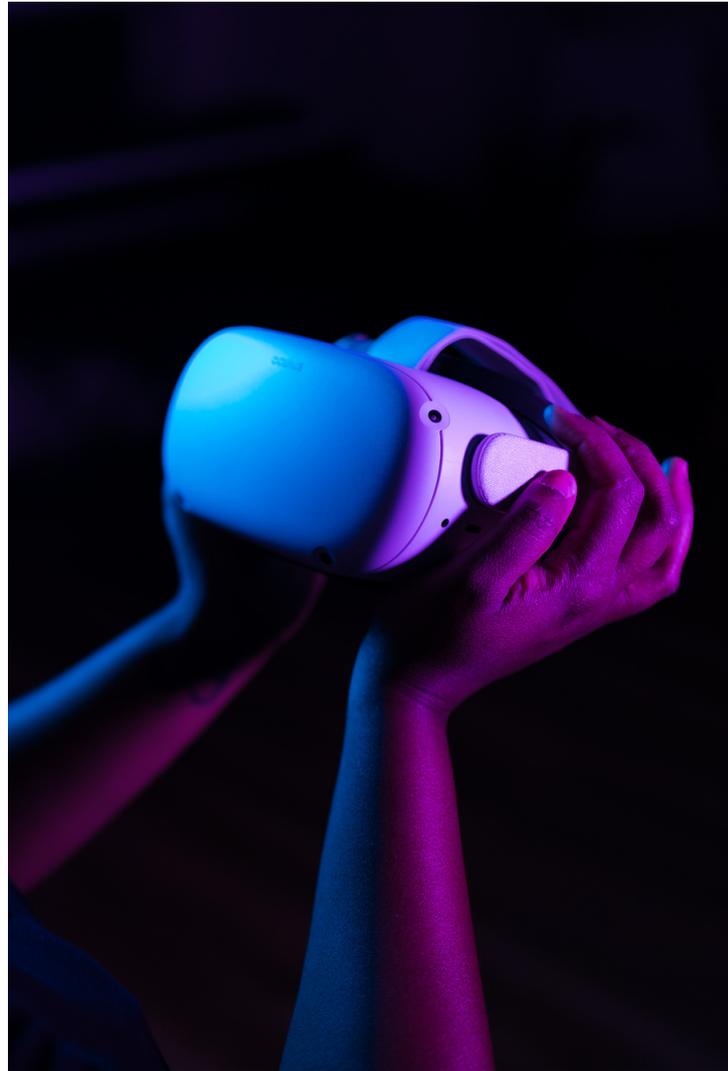
Access to the internet, connected devices, and digital literacy remain unequal in Malaysia. The digital divide is both an urban and rural issue. However, the disconnect can be more apparent in areas outside the Klang Valley.

Affordability is a primary cause of the digital divide. Small-scale contractors are less likely to have reliable access to high-quality connections and enabling technology such as AR/VR. Because of this, most of these contractors do not have the skills necessary to use technology or to navigate successfully in a digital environment.

Digital equity is "a condition in which all individuals and businesses have the information technology capacity needed for full participation in our industry and economy." It is most relevant where the construction industry requires technology essential for success and economic growth. Learning from disruptive technologies (such as BIM), this has not had a similar impact that it has had in developed countries.

These are due to factors that are both local and specific to Malaysia. It should be the aim for us to first focus on digital inclusion before jump-starting VR and AR implementation. As much as the technology proves to improve productivity at a global level, it must, however, be tuned and localised to meet local requirements and skillset.

As a conclusion, since technology advances daily, true digital equity methods must be adapted in steps and phases. Those who support digital equity initiatives should understand that barriers to digital inclusion exist and seek out intentional solutions to overcome them. Some of this inclusion may even further break down the definition of VR and AR into achievable aims and definitions. A potential kick-start is to break down the definitions of VR and AR, such as defining it as 'Captured Reality' that can capture job sites most efficiently and effectively using available and ready products in the market. These images can be uploaded onto the cloud and accessed for 360-degree viewing by all stakeholders. This will make adoption less daunting as much of the technology is already available and affordable.

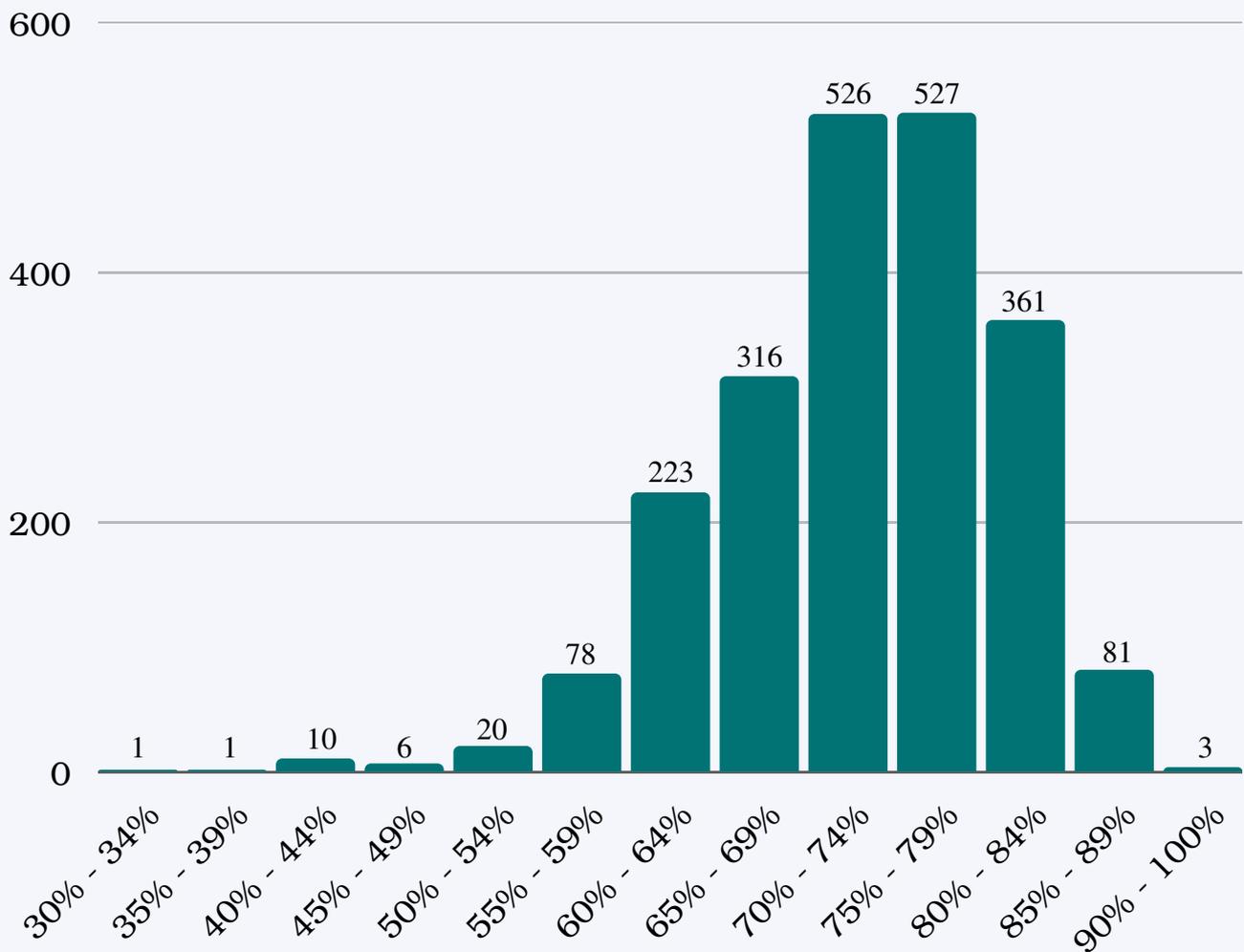


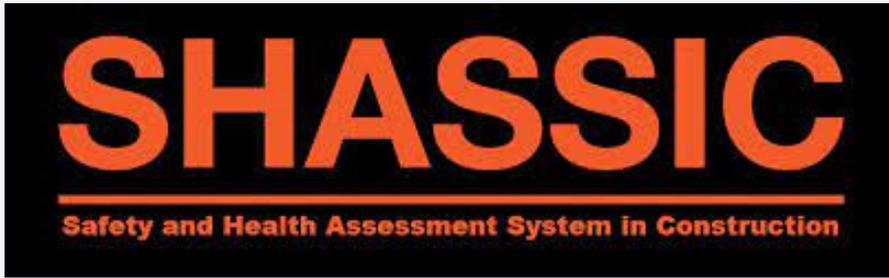


Scan for QLASSIC brochure



■ QLASSIC Score Distribution (2016 - 2022)

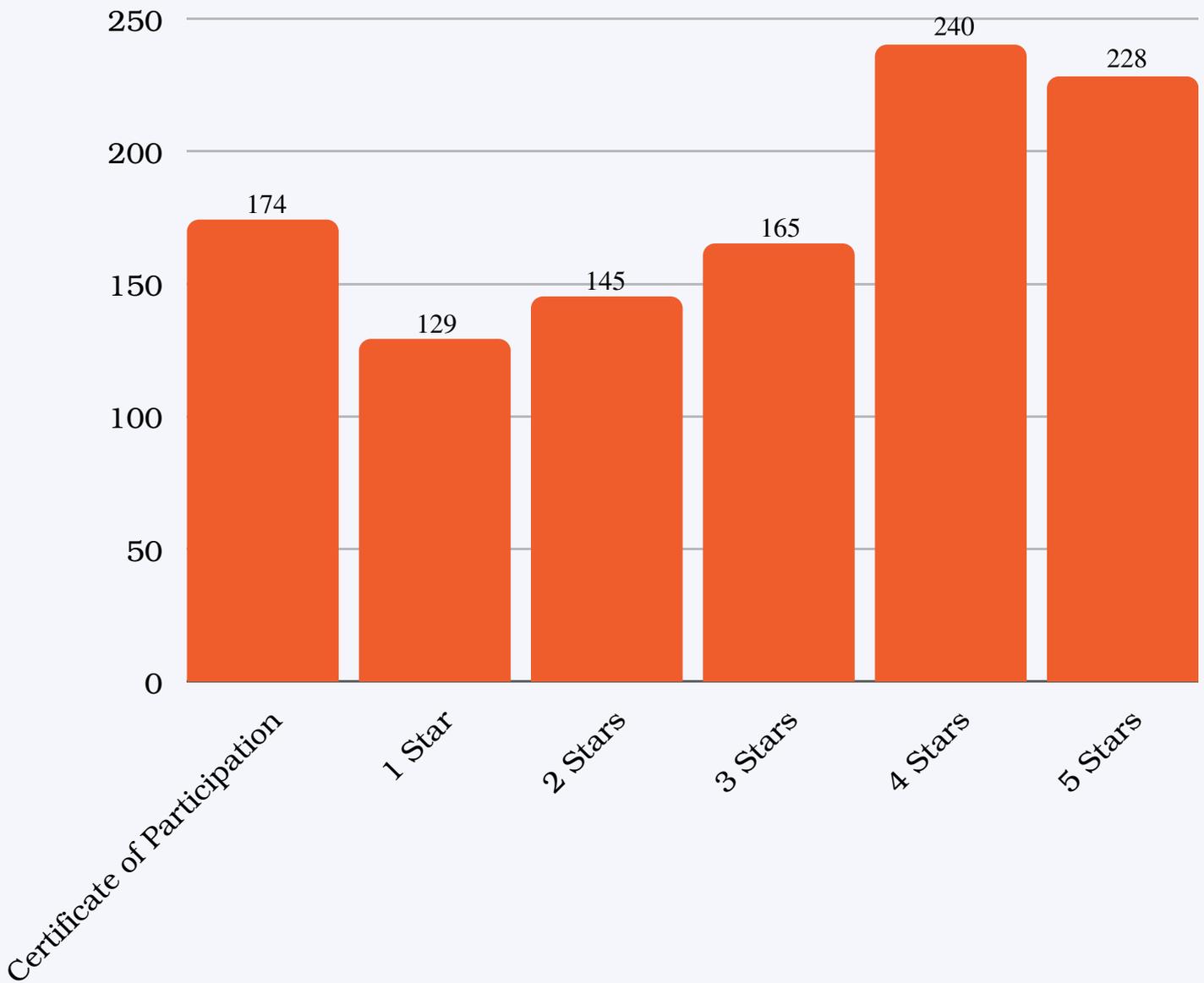




Scan for SHASSIC
brochure

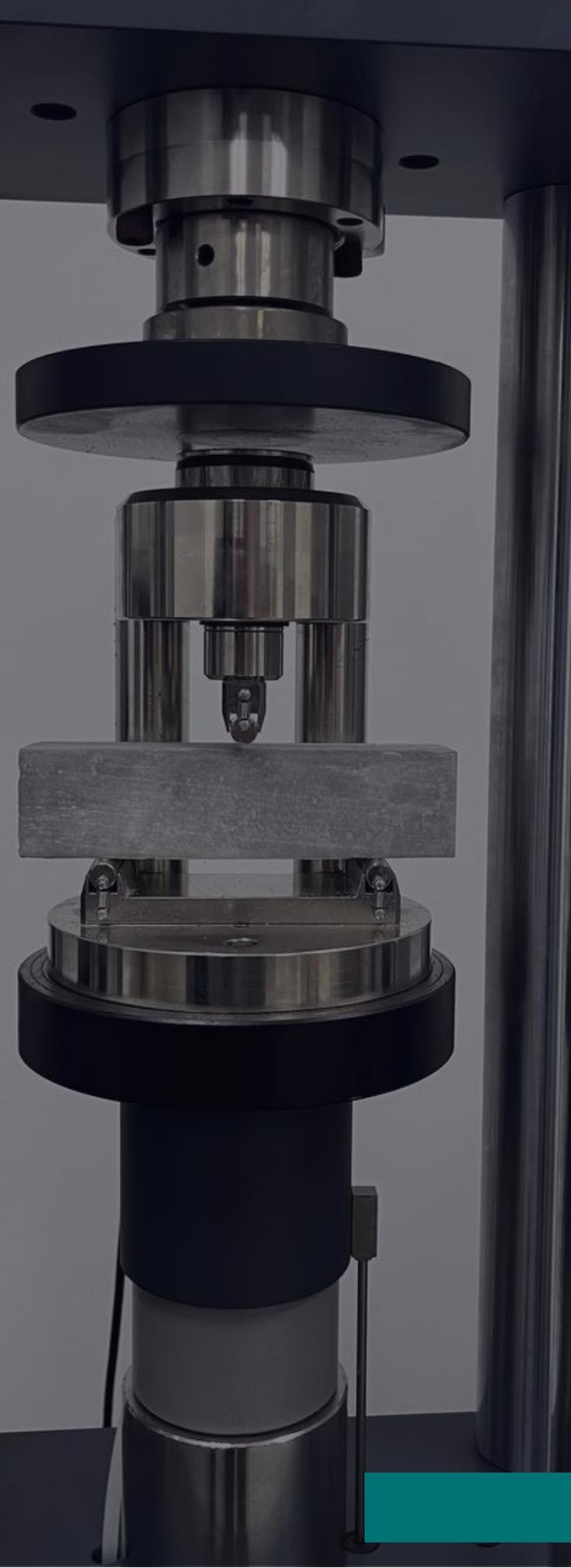


■ SHASSIC Score Distribution (2016 - 2022)



For more info and enquiries, contact us at casc@cream.my

CONTROLS



highlights on
October
activities

Highlights on October Activities

The Enhancement of Contractor Management Courses in the Construction Industry: Training Need Analysis

Date : 3 October 2023

Venue : Tenera Hotel, Bandar Baru Bangi, Selangor

A focus group discussion (FGD) was held at Tenera Hotel, Bangi as a pre-validation of the Training Need Analysis (TNA) for the contractor management courses in the construction industry. The third FGD was moderated by Ts. Dr. Hj. Mohd Khairolden Ghani, the manager of CREAM's Construction Industry Consultancy Division. The main objective was to obtain consensus from the expert panels regarding the needs and requirements of the contractor management courses in accordance with the current needs of the construction industry.



The necessity of the courses was deliberated among clients from Tenaga Nasional Berhad (TNB), Suruhanjaya Perkhidmatan Air Negara (SPAN), and Jabatan Kerja Raya (JKR). The FGD was also attended by several key organisations comprising both clients and contractors, namely Jabatan Alam Sekitar, academicians, contractors, and JKR. All representatives were highly cooperative in giving opinions and suggestions for future enhancement of the courses. The inputs gathered from this FGD will be presented during the final FGD in November 2023.



Highlights on October Activities

Kursus Pembinaan Berdaya Tahan 2023

Date : 4-5 October 2023

Venue : Grand Continental Hotel, Kuching, Sarawak



On October 4th and 5th, 2023, Kursus Pembinaan Berdaya Tahan took place at Grand Continental Hotel, Kuching, Sarawak. This two-day course aims to provide exposure and train the industry and PBT to use the guidelines developed by CREAM for assessing the risk of landslides and floods in an area before development takes place.

On the first day, the course started with a session on Landslide Overview in Malaysia by Dato' Ir. Dr. Che Hassandi Abdullah and then continued with a session on Landslide Vulnerability Assessment & Risk Classification by Dato' Zakaria Mohamad. The last session was a talk on Guideline & Manual Landslide Vulnerability Assessment & Risk Classification by Ts. Dr. Mastura Azmi.

The second day started with a session with Flood Overview in Malaysia by Datuk Ir Haji Abdullah Isnin. The course then continued with a session on Flood & Disaster Risk Reduction (DRR) oleh Hjh. Ir. Bibi Zarina Che Omar and then ended with a session on Guideline & Manual Flood Risk Assessment & Flood Vulnerability Index in Malaysia by Sr. Dr. Muhammad Wafiy Adli Ramli.

We want to thank all the participants for attending the seminar. We hope that you enjoyed the event and found it valuable.



Highlights on October Activities

Validation Workshop on Business Requirement Specification of Digital Self-Assessment System for Productivity Measurement Tool (PMT)

Date : 6 - 8 October 2023

Venue : Movenpick Convention Centre KLIA



The final workshop for the development of the System Digital PMT was held on the 6th to 8th October 2023 at the Movenpick Convention Centre KLIA. The objective of the workshop was to present and validate the business requirement specification of the System Digital PMT which has been developed through the collaboration of CREAM with E-Construct CIDB.

We were honoured to have Pn. Zainora Zainal, Senior General Manager Technology Development Sector CIDB Malaysia to grace our event with her presence, adding an invaluable touch of prestige and expertise. We would also like to extend our heartfelt appreciation to all the committees from the Implementation Coordination Unit Prime Minister's Department (ICU, JPM), and representatives from the Ministries and the Implementing Division: Public Works Department (JKR), Ministry of Local Government Development (KPKT) and Ministry of Higher Education (MOHE) who contributed to the success of the event, your enthusiasm, engagement, and valuable insights made the gathering truly memorable.



Highlights on October Activities

CIDB Construction Law Report (CCLR): October Roadshow 2023

Date : 5, 10, 13 and 19 October 2023

Venue : Pahang, Johor, Sarawak and Sabah



CIDB Construction Law Report (CCLR) comprises construction case laws decided from January to December each year. The Construction Research Institute of Malaysia (CREAM) has been responsible to assist CIDB in compiling construction court cases, appointing commentators, editing, and publishing CCLR since 2018.

CREAM is also entrusted by CIDB to promote CCLR especially among contractors and developers as it can reduce construction disputes based on decided court cases if the issue before the court is similar. This may increase construction productivity at the same time. The compilation of construction court cases involves three levels of courts, namely the High Court, Court of Appeal, and Federal Court. Crucial points and facts of these cases are summarised and presented in simple plain language for readers' understanding. The choice of cases is based on a landmark case because its most significant cases are those that have a lasting effect on the application of a certain law, often concerning organisational rights and liberties.

This year, CIDB has planned the Standard Form of Contract for Building Works 2022 Edition roadshow. Therefore, CIDB invites CREAM to be involved in the marketing and promotion of CCLR based on the 2016-2021 editions. There were 5 states involved in the roadshow, namely Pulau Pinang, Pahang, Johor Bahru, Sarawak, and Sabah.

The first roadshow was held on 7 August 2023 at USM, Pulau Pinang while the remaining roadshows were scheduled in October across 4 states, including Pahang on 5 October 2023 at AC Marriot Hotel, Johor Bahru on 10 October 2023 at UTM Skudai, Sarawak on 13 October 2023 at UNIMAS, and Sabah on 19 October 2023 at UMS. CREAM received favourable responses during the roadshow.



Highlights on October Activities

Developing CIDB Facilities Management (FM) Strategic Plan (CFMP) 2024: Empowerment of FM in Construction Industry

Date : 10 October 2023

Venue : Tenera Hotel, Bandar Baru Bangi, Selangor



CIDB has funded CREAM to develop the CIDB Strategic Plan for Facilities Management (FM) 2024 (CFMP 2024). The development of CFMP 2024 is part of the initiatives of CIDB Strategic Plan 2025 (CSP) to enhance FM in the construction industry. The fourth focus group discussion (FGD) for CFMP was held at Tenera Hotel, Bangi and moderated by Ts. Dr. Hj. Mohd Khairolden Ghani, manager of the Construction Industry Consultancy Division. The FGD was held to obtain consensus from the participants who represented various organisations directly involved in FM. Based on the findings from the last FGD held at CREAM, the participants were required to provide input on the CIDB FM strategic plan. The main objective of this FGD was to gain agreements on the strategic plan in the short, medium, and long term.

The FGD was attended by committee members and subject matter experts (SMEs) from various FM players in Malaysia, including committee members from the Malaysian Association of Facilities Management (MAFM), members from Persatuan Kontraktor Infrastruktur & Pengurusan Fasiliti Bumiputera (PKIF), treasurer general from the Malaysian Institute of Property and Facility Managers (MIPFM), Jabatan Kerja Raya (JKR), FM consultants, and FM contractors. The participants were eager to provide new suggestions for developing CFMP 2024. All inputs and feedback gathered in the FGD will be used in developing the final report of CFMP. The next FGD for the final validation of CFMP is expected to be held in November 2023.



Highlights on October Activities

MSA International Symposium 2023

Date : 10-11 October 2023

Venue : MSA UTHM Training Centre, Kwasa Damansara



MSA International Symposium 2023 was held at the Metro System Academy, Universiti Teknologi Tun Hussien Onn (UTHM), Sg. Buloh on 10th and 11th October 2023. It was officially inaugurated by YB Minister Anthony Loke. CREAM had the privilege of exhibiting our railway testing services at this event, which was attended by rail industry players from all over the world. This symposium was organized by the Metro System Academy and the theme of this symposium is "Sustainable Rails Rejuvenate the Malaysian Economy."

On the first day, 10th October 2023, following the official inauguration of the symposium by YB Minister, he visited our booth and we took this valuable opportunity to brief him on CIDB's and CREAM's initiatives in the rail sector. Moving on to the second day, 11th October 2023, Sr Nazir Muhamad Nor presented paper entitle "Building the Future of Rails: CIDB's Key Roles Revealed." Revolved around four main points:

1. The importance of the construction industry.
2. An overview of CIDB and its significant roles.
3. How CIDB can enhance your testing processes.
4. CIDB's perspective on future planning for the rail sector.

Highlights on October Activities

MBAM OneBuild Exhibition

Date : 11 - 13 October 2023

Venue : Kuala Lumpur Convention Centre (KLCC)



The Construction Research Institute of Malaysia (CREAM) was honoured to be invited by the Construction Industry Development Board (CIDB) to participate in the MBAM OneBuild Exhibition 2023. The event was held from 11 to 13 October 2023 at Kuala Lumpur Convention Centre, KLCC.

The event provided a platform for industry players to explore business opportunities and learn about the latest market developments and technologies in construction management.

The launching ceremony was graced by the guest of honour, YB Dato Sri Alexander Nanta Linggi, the Minister of Works Malaysia. During the launching ceremony, CIDB booth, consisting of CREAM, CIDB Holding, and Bahagian Standard Bahan Binaan, was visited not only by the guest of honour but also by other notable guests.



Highlights on October Activities

Seminar Doing Right Projects Rightly

Date : 16 October 2023

Venue : Auditorium INTAN Bukit Kiara



CREAM was invited to exhibit booth showcasing our products and services in Seminar "Doing Right Projects Rightly" (DRPR) 2023 at INTAN Auditorium Bukit Kiara, Kuala Lumpur on 16 October 2023. The seminar was organised the National Institute of Public Administration (INTAN) in collaboration with the Ministry of Public Works (KKR), the Department of Public Works (JKR) and the Construction Industry Development Board (CIDB) and the theme of the seminar was "Project Management Innovative: Aspirations of CIVIL Malaysia".

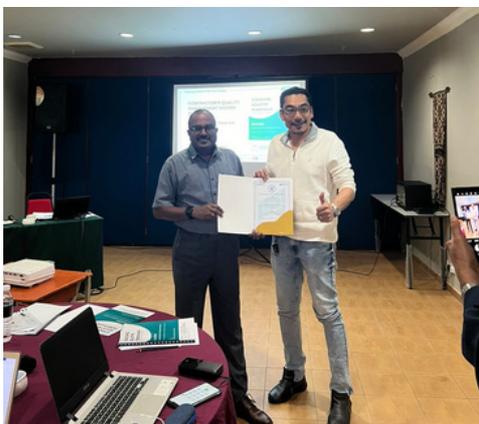
Highlights on October Activities

Workshop on Developing Question Module for Train the Trainer (TTT) CIS 29: 2021 Contractor's Quality Management System (CQMS)

Date : 16 -17 October 2023

Venue : Hotel Seri Malaysia, Genting Highland Pahang

The Construction Research Institute of Malaysia (CREAM) organised the "Bengkel Pembangunan Soalan Train The Trainer (TTT) CIS 29:2021 Contractor Quality Management System (CQMS)" at Hotel Seri Malaysia, Genting Highland on 16 and 17 October 2023. The workshop was attended by 8 individuals comprising 3 representatives from CREAM (Ir. M. Ramuseren, Ts. Syed Hazni Abd Gani, and Farid Hafizudin bin Zamry) and 5 invited guests (Jayasegaran A/L Karuppiah, Malini Tayaparan, Clifton Heath Fernandez, Mazlan bin Ismail, and Ms. Goh Wan Lan). The purpose of this workshop was to develop questions for the upcoming Train the Trainer (CQMS) course. The developed questions will be reviewed and evaluated to ensure their quality and effectiveness. CREAM expresses its sincere appreciation to the invited guests for their valuable time and collaborative contributions towards this essential question development task.



Highlights on October Activities

Webinar Latihan Kontraktor CIS 29: 2021 Contractor's Quality Management System (CQMS) - Pilot Project

Date : 18 October 2023

The Construction Research Institute of Malaysia (CREAM) conducted a Contractor Training Webinar for CIS 29:2021 Contractor Quality Management System (CQMS) on 18 October 2023. It was the second training session for the second pilot group, following the first contractor training session for the initial pilot project held on 25 July 2023 at Seri Pacific Hotel Kuala Lumpur. The webinar was attended by 29 contractors from various grades, including Shanghai Tunnel Engineering & Construction Sdn Bhd, Sunway Integrated Property, Safwa Global Venture (M) Sdn Bhd, and Barrow Aluminium Sdn Bhd. The objective of organizing the second contractor training was to increase the number of certified contractors in the Contractor Quality Management System (CQMS). CREAM wishes to express the utmost gratitude for the contractors' attendance and cooperation throughout the webinar.

Highlights on October Activities

The DIG.IT.ALL Forum Series: Embracing Digital Technology

Date : 18-19 October 2023

Venue : Bayview Hotel Georgetown Penang & IJM The Light City Plot A Penang



The third series of the DIG.IT.ALL Forum Series took place on 18 and 19 October 2023 at Bayview Hotel Georgetown Penang and IJM The Light City Plot A, respectively. The event was held in collaboration with the Board of Engineers Malaysia (BEM) and received a total participation of more than 50 people, with the aim of increasing professionals' technological awareness of Construction 4.0 and the latest technologies being used in the construction industry.



Day 1 of the event witnessed 8 key figures in the construction technology field who shared their current projects and vast experience with the audience who came from different backgrounds. Green technology and sustainable building in Malaysia were some of the key topics discussed by the speakers in the morning session. The importance of adhering to the criteria of compliance for green buildings was also highlighted by the speakers along with the need of having a comprehensive leadership to nurture the sustainability agenda among younger generations. Later in the afternoon session, strategic approaches in enhancing the digitalization capabilities in the country were discussed, which focuses on the academic and industry perspective.



Highlights on October Activities



Day 2 brought the participants to the new heart of Penang where they met with IJM's team for the ongoing The Light City project. Approximately 30 participants were involved in the technical visit and they were briefed about the progress and BIM technology used in the project by the IJM BIM team. This involved the utilisation of BIM technology for their daily work routine and Virtual Reality (VR) showcase on-site, which included the viewing of some of the project's mock-up architectural finish. Overall, it was truly a tremendous and eye-opening experience to witness IJM's implementation of digital technology from the design level up to the construction stages as this could set Malaysia's construction industry standard at par with other competitive and growing nations.

The fourth and final series of the DIG.IT.ALL Forum Series in partnership with Malaysia Board of Technologists (MBOT) and The Board of Quantity Surveyors Malaysia (BQSM) will be held on 15 November 2023 at MITEC, Kuala Lumpur in conjunction with the International Construction Week 2023 (ICW2023). To book a slot, please visit the CREAM website at www.cream.my or contact Mr. Shahir at shahir@cream.my.



Highlights on October Activities

Technical Professions Driving the Development of Civilized Malaysia: Innovation Issues and Challenges.

Date : 19 October 2023

Venue : Engineering and Technology Center of Excellence, JKR (CREaTE).



YBhg. Datuk Seri Hj Hasnol Zam Zam, Secretary General of the Ministry of Public Works attended the Innovation Talk Program panel with the title "Technical Professions Driving the Development of Civilized Malaysia: Innovation Issues and Challenges". The program was organized in conjunction with the National Technical Professions Day held at JKR's Engineering and Technology Center of Excellence (CREaTE).



CREAM was given the opportunity to showcase one of the R&D done by CREAM which was The Interlocking Hollow Block System (IHBS).

Source: ©MINISTRY OF PUBLIC WORKS MALAYSIA | Photo by Adi Saad

Highlights on October Activities

Facilities Management Benchmarking Visit to United Kingdom and Scotland

Date : 21-29 October 2023

Venue : United Kingdom and Scotland

Recent benchmarking visit to the United Kingdom took place from October 21 to 29, 2023. This visit was a part of our Facility Management benchmarking initiative under the Strategic Plan project, which is funded by CIDB. The delegation consisted of five officers led by Mr Suhaimi Mansor, Senior General Manager of CIDB, Ms Farahdila Zakbah, Senior Manager of CIDB and Sr Aljuffry Mohd Ariffin, and we had the opportunity to visit key organizations and institutions in the UK to gain valuable insights into Facility Management practices and standards.



1. Institute of Workplace and Facility Management (IWFM), Stratford

The visit to IWFM was welcomed by the President, Linda Hausmanis, who provided an overview of the institute's role as a training institution with over 15,000 members worldwide. Their dedication to education and professional development was truly inspiring.



2. Royal Institution of Chartered Surveyors (RICS), Parliament Building, Westminster, London

A courtesy call was made to RICS at the Parliament Building in Westminster where Mr. Paul Bagust, Head of Property Section, RICS, briefed us on the key roles of RICS in improving productivity, measurement, and value for building surveyors. Their emphasis on enhancing the built environment was enlightening.



3. Edinburgh and Doune, Scotland

In Scotland, we had the privilege of meeting Stan Mitchell, CEO of KeyFM International and also a founding board member of the British Institute of Facility Management (BIFM) and the chair of the ISO Technical Committee for ISO 41001. He emphasised the importance of people-focused Facility Management and the need for organisations to adhere to standards, ensure personnel competency, and strive for value for money to optimise performance.



Highlights on October Activities



4. Technical Visit to Forth Valley Royal Hospital (FVRH), Stirling, Scotland

During our visit to the Forth Valley Royal Hospital, the General Manager provided insights into the hospital's functions. We were particularly impressed by the hospital's advanced facilities, including full automation and the use of robots for food service and waste management. The hospital's commitment to cutting-edge technology was remarkable.

5. Liverpool John Moores University (LJMU), Liverpool

At LJMU, we met with Professor Mike Riley, the Programme Director of the School of Built Environment and Civil Engineering, who shared valuable information about research in the field of Facility Management. Their commitment to advancing knowledge in this area was evident and inspiring. Our visit to the United Kingdom was incredibly informative and provided us with valuable insights into the best practices and latest developments in Facility Management.



Highlights on October Activities

Technical Visit to KNR Systems Incorporated, Korea Railroad Research Institute (KRRI), Korea Institute of Civil Engineering & Building Technology (KICT) and Sampyo Railway Corporation Limited, South Korea

Date : 23 - 26 October 2023

Venue : South Korea

On 23 to 26 October 2023, a delegation from CIDB and CREAM, led by the General Manager of the Standards & Building Materials Division, CIDB, Sr. Nazir Muhamad Nor and accompanied by the Manager of CIDB, Ts. Nur Hanis Amsari and Test Engineer of CREAM, Ts. Yuzairy Rozaidi Rohaizan, visited KNR Systems Incorporated, Korea Railroad Research Institute (KRRI), Korea Institute of Civil Engineering & Building Technology (KICT), and Sampyo Railway Corporation Limited in South Korea.



The objectives of the visit were to:

- Obtain input and proposals for the development of the second phase rail testing facility at MKRM by optimising the allotted allocation with the purchase of critical equipment.
- Organise a visit to the Testing Laboratories under KRRI and KICT to gain experience and expert views.
- Develop the delegation's human capital through the sharing of rail testing facility development expertise by KRRI.
- Discuss for scope of cooperation that can be pursued through MoU, MoA, etc.

Highlights on October Activities

CREAM -MKRM Laboratory Tour 2023

Date : 24 October 2023

Venue : Makmal Kerja Raya Malaysia



It's a pleasure to have representatives from Express Rail Link (ERL) and RapidKL Rail to visit our CREAM-MKRM last 24th October 2023.

The main objective of the visit is to learn more about our testing facilities and services, and to discuss future collaboration opportunities. The visit was very productive and allowed the visitors to gather valuable information about the latest technology available at CREAM MKRM.

Thank you for joining us and making this visit a success. Our team at CREAM-MKRM is so glad to meet with you in our lab. We hope to cooperate with you soon as your business partner.

We are always open to visitors, so drop by and say hi! We would love to introduce our facilities and services to you.

Highlights on October Activities

QLASSIC Pre-Site Visit for The Exchange TRX Project.

Date : 25 October 2023

Venue : The Exchange TRX



On 25 October 2023, Lendlease Projects (M) Sdn Bhd - TRX Retail Team invited CREAM to hold a QLASSIC Pre-Site Visit for its latest project called The Exchange TRX.

The Pre-Site Visit led by Ts. Syed Hazni and a team from the Construction Assessment Centre (CASC) of CREAM was held to observe the current condition of the site before the QLASSIC team's arrival to conduct the assessment. It was crucial to see the locations and samples available for QLASSIC assessment. When the QLASSIC assessment is completed, The Exchange TRX will be the first QLASSIC-certified shopping centre project in the Klang Valley.

The Exchange TRX, the lifestyle precinct of the Tun Razak Exchange, is set to become the social heart of Kuala Lumpur and will bring experiential retail and entertainment to life upon its debut in Q4 2023. Conceived as "a lifestyle precinct in the park", The Exchange TRX will include more than 400 experience stores spanning across four retail levels and featuring new-to-market brands, statement stores, and reimagined store formats. It is developed by Lendlease, an international real estate group with a global track record in urban regeneration and place-making. The company has been creating innovative and sustainable properties in Malaysia for over 35 years, with a proven track record of local expertise by having completed over 100 projects in Malaysia across a multitude of sectors, including the iconic Petronas Twin Towers, Setia City Mall, and Pinewood Iskandar Malaysia Studios.

Highlights on October Activities

Research Collaboration between CREAM and TNBR on the Development of Standard Design for Substation Building using Industrialised Building System (IBS)



In a recent technical visit, CREAM together with TNBR, embarked on a site visit to "Pencawang Masuk Utama" (PMU) located Johor Bahru. The primary objective of this visit was to gain a comprehensive understanding of the technical aspects and its importance in the broader context. Pencawang Masuk Utama" (PMU), is a critical infrastructure component in the electrical power distribution network. PMU acts as a vital connection point between the utility provider and the end consumers. PMU plays a crucial role in ensuring a reliable and uninterrupted power supply to the surrounding areas. It acts as a gateway for high-voltage electricity entering the region, which is then transformed and distributed to various substations, eventually reaching homes, businesses, and other establishments.

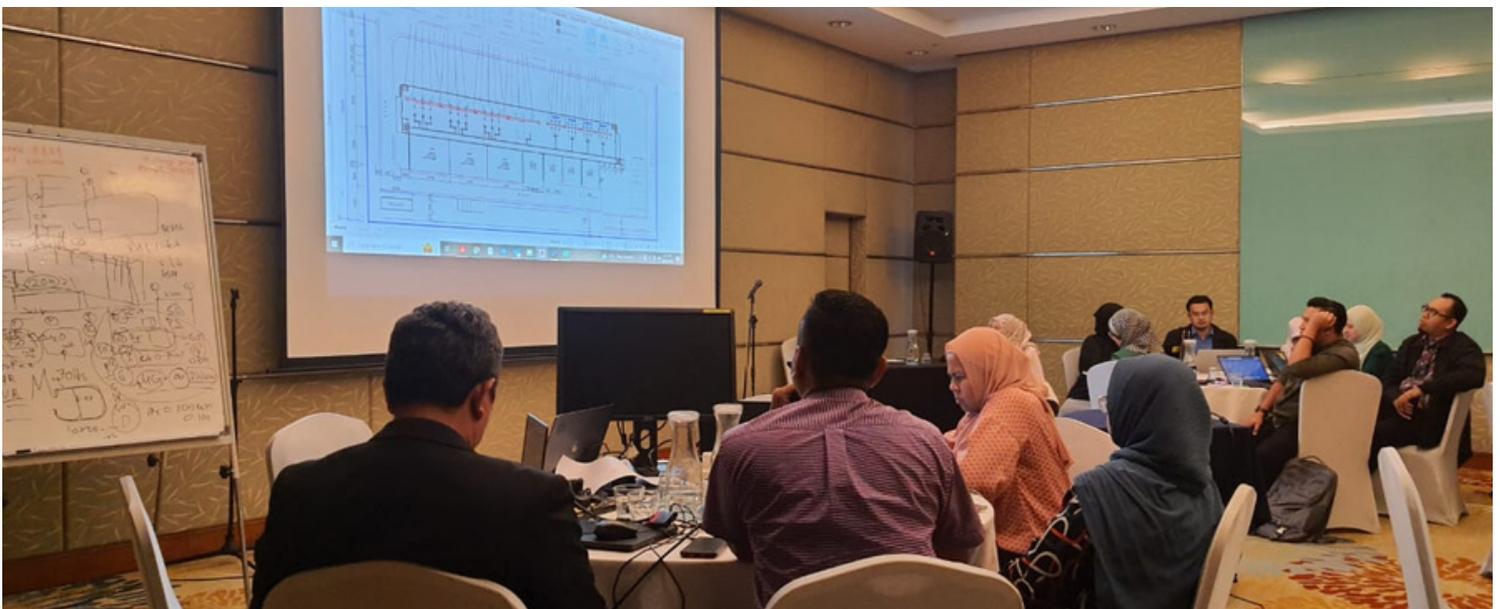
Situated at Kangkar Tebrau and Southkey, both PMU using different methods of construction, one used conventional method and the other used Industrialized Building System (IBS) method. Both PMU give a better insight into development of the standard design. While most of the PMU use conventional methods of construction, IBS encompasses a range of components and systems that integrate to become a full functions building. The outcome of this visit was to get the best idea to incorporate the IBS system in PMU.

Highlights on October Activities

Research Collaboration between CREAM and TNBR on the Development of Standard Design for Substation Building using Industrialised Building System (IBS)



In line with the technical visit, a two-day workshop on Client Brief of Requirements (CBOR) and Technical Brief of Requirements (TBOR) was held at St Giles Boulevard Mid Valley. The objective of this workshop was to get the requirements set by TNB Grid Development to incorporate with the standard design. During the workshop, TNB Grid Development highlighted the importance criteria needed and their significance to be included during design stage. This workshop enabled CREAM and TNBR to grasp the key principles and requirements from TNB.

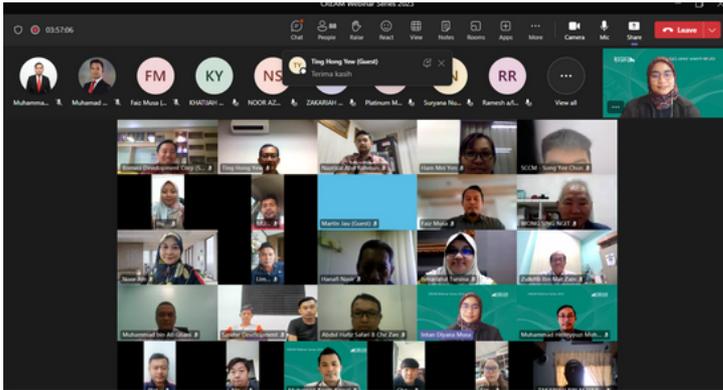


Highlights on October Activities

CREAM Webinar Series 2023

CREAM Webinar Series 2023 is a monthly program organised by CREAM and it is a part of our efforts to initiate conversations on issues, challenges, opportunities and initiatives for the construction industry and beyond.

The theme for this month's webinar is **"Deliver Better- Quality and Safer Construction through QCLASSIC and SHASSIC"**



Session 1: Quality Assessment System in Construction (QCLASSIC)

26 October 2023

Speakers:

- **Mr. Muhamad Faiz Musa**
Manager, Construction Quality Unit, Construction Industry Development Board Malaysia (CIDB)
- **Mr. Muhamad Azam Azmai**
Assessment Officer, Construction Research Institute of Malaysia (CREAM)
- **Mr. Muhammad Helmyyuzi Mohd Hamid**
Assessment Executive, Construction Research Institute of Malaysia (CREAM)

No of participants: 88 pax

Session 2: Safety and Health Assessment System in Construction (SHASSIC)

31 October 2023

Speakers:

- **Mr. Muhamad Afif Mohamed Jamil**
Manager, Construction Safety & Health Unit, Construction Industry Development Board Malaysia (CIDB)
- **Mr Mohd Nazrol Ibrahim**
Assessment Executive, Construction Research Institute of Malaysia (CREAM)
- **Mr. Mohd Nizam Baharuddin**
Assistant Vice President (Safety and Sustainability) Sime Darby Property Berhad.

No of participants: 90 pax



upcoming events



DIG.IT.ALL

Forum Series *in conjunction with*



hosted by:



organised by:



co-organised by:



supported by:



EMBRACING DIGITAL TECHNOLOGY

15 November 2023, Wednesday | 8AM - 5PM | MITEC, Kuala Lumpur

**15 CCD POINTS
CPD POINTS APPLIED**

Morning Session

Optimising Digital Sustainability Investment for Cost-Efficient Built Asset Management

SPEAKER 1:

Mr. Arivagara Pavithran
CEO, Maxwell CFM International Sdn. Bhd.

SPEAKER 2:

Sr Muhammad Zuhry Bin Mohd Mazlan
Executive Director, MCM Value Sdn Bhd

SPEAKER 3:

Mr. Tun Masri Abu Bakar
Senior Director of Sales, JLL Malaysia

MODERATOR:

Mr. Ahmad Sha'rainon Md Shaarani
Managing Director, Microcorp Sdn. Bhd.

Special Slot

Achieving Net Zero Emissions: Foundation of Carbon Accounting

Mr. Hans Weemaes

Director of Sustainability, Turner & Townsend

Virtual Tour

Exploring the Mixed Reality & Digital Twin Technology in Real World Application

Hertford System Sdn Bhd

FEES:

NORMAL RATE: RM150
(PER PAX)

GROUP REGISTRATION: RM100
(MIN 5 PAX PER GROUP)
(PER PAX)

GOVERNMENT OFFICIALS & PROFESSIONALS: RM125
(Registered with BEM, MBOT, LAM, BQSM)
(PER PAX)

Register here

*Walk-in registration is accepted



For more info:
www.cream.my/dig-it-all
shahir@cream.my
+603 2779 2479



<https://forms.office.com/r/0GhCihNCK7>



DIG.IT.ALL

Forum Series *in conjunction with*



hosted by:



organised by:



co-organised by:



supported by:



EMBRACING DIGITAL TECHNOLOGY

15 November 2023, Wednesday | 8AM – 5PM | MITEC, Kuala Lumpur

**15 CCD POINTS
CPD POINTS APPLIED**

Programme

Registration

Time

8.00 am – 9.10 am

Welcoming remarks by CIDB

9.10 am – 9.20 am

Opening Speech by a representative from Professional Body

9.20 am – 9.30 am

Special slot by Professional Body

9.30 am – 10.00 am

Coffee Break & Networking Session

10.00 am – 10.30 am

Morning Session

Optimising Digital Sustainability Investment for Cost-Efficient Built Asset Management

10.30 am – 12.30 pm

Q&A Session

12.30pm – 1.00pm

Lunch and Networking

1.00 pm – 2.30 pm

Special Slot: **Achieving Net Zero Emissions: Foundation of Carbon Accounting**

2.30 pm – 3.10 pm

Virtual Tour: **Exploring the Mixed Reality & Digital Twin Technology in Real World Application**

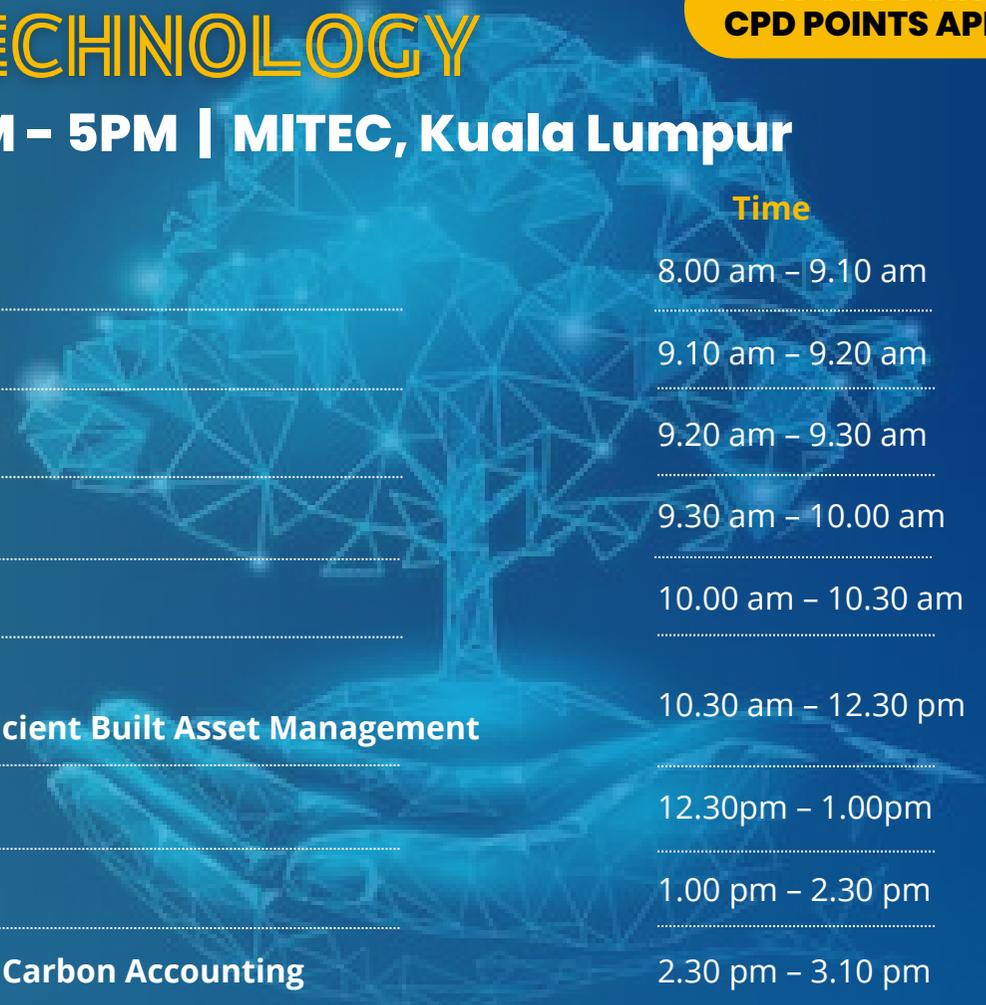
3.10 pm – 4.10 pm

Q&A Session

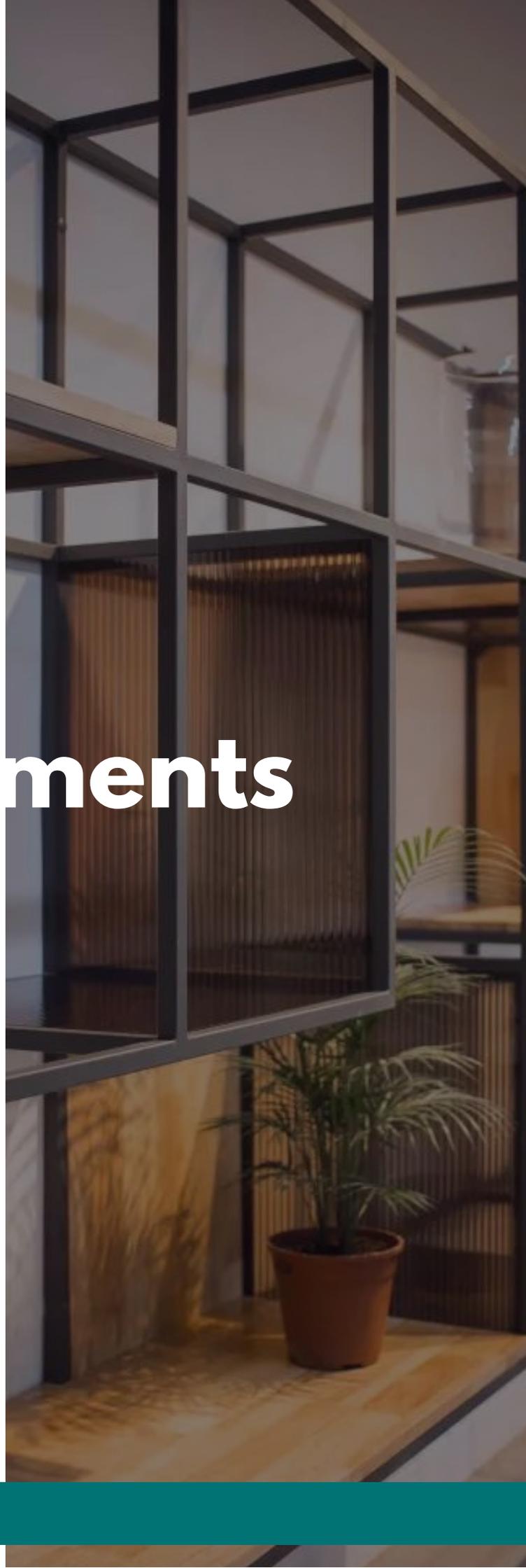
4.10pm - 4.30 pm

Refreshment & End of Programme

4.30pm - 5.00 pm



advertisements



SMART WEB PORTAL CALL FOR ARTICLES

The Standard, Method, Assessment, R&D and Technology (SMART) web portal aims to serve as a one-stop center for the Malaysian Construction Industry Development Board (CIDB) to disseminate information and the most recent updates about the construction industry, including products, services, and facilities.

Accepted articles will be published in the SMART web portal

<https://smart.cidb.gov.my/>

Submission Period **16 May 2023 - 31 Sept 2023**

TOPICS

- ✓ **Civil Engineering and Built Environment**
- ✓ **Digitalisation in Construction**
- ✓ **Construction and Innovation Technology**
- ✓ **Social and Economic Impacts in Construction**
- ✓ **Sustainable and Resilient in Construction**
- ✓ **Smart Cities**
- ✓ **ESG in Malaysia's Civil Society**

**Other topic areas will be considered and accepted upon reviewer approval*

Info & Submission

www.cream.my/smart_webportal

TERMS AND CONDITIONS

Authors & Honorarium

- Maximum 3 authors per article
- Each author will be given honorarium and will be paid once articles were published in the portal
- CREAM will notify the authors if their articles are accepted for publication

Rights

- Reviewer panel from CIDB have the final decision on the article
- Articles published are belonged to CIDB
- CIDB will have the rights to use any information in the articles for future references

For more info:

☎ 03 2779 1479

📍 Level 29, Sunway Putra Tower

✉ smartcream.my

Connect with us

🌐 www.cream.my



creamcidb



cream_cidb



Construction Research Institute of Malaysia



Advertise Your Products & Services Here

**With CREAM E-Magazine, you will be
connected to a larger community of the
construction stakeholders**

Advertisement Package

Quarter Page

RM 300

+ free one (1) seat for CREAM Webinar Series

Half Page

RM 500

+ free two (2) seats for CREAM Webinar Series

Full Page

RM 750

+ free four (4) seats for CREAM Webinar Series

Contact Us

 03 2779 1479

 marketing@cream.my

 www.cream.my

PUBLISH YOUR ARTICLES IN CREAM E-MAGAZINE

CREAM is always looking for the best and brightest to share their expertise with our readers. We are offering a space for you to submit your construction-related articles and get them published in our e magazine! This is a great opportunity to showcase your work as well as learn from experts in the field of construction.

Requirements

- ✓ Construction field related
- ✓ Max 3 pages

Submission Fee

RM500/article

+ free one (1) seat for CREAM Webinar Series

Submit Now

Send your articles to :
marketing@cream.my



Connect with us



+603 2779 1479



general@cream.my



cream_cidb



creamcidb



Construction Research Institute of Malaysia

