

ISSUE 9 - SEPTEMBER 2023



CREAM

e-magazine



- An Interview Session with YBhg. Dato' Sr. Mohd Zaid Zakaria, Chief Executive of CIDB Malaysia
- Safety & Health, Environment and Quality (SHEQ) Day 2023
- Professional and Leadership Roles in Construction Digitalisation
- CQMS Certification
- Statistics on Number of Registered Contractors in Malaysia
- Highlights on September Activities

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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



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An Interview Session with YBhg. Dato' Sr. Mohd Zaid Zakaria, Chief Executive of CIDB Malaysia



YBhg. Dato' Sr. Mohd Zaid Zakaria, Chief Executive of Construction Industry Development Board Malaysia (CIDB)

YBhg. Dato' Sr. Mohd Zaid Zakaria has been appointed as Chief Executive of Construction Industry Development Board (CIDB) Malaysia with effect from 1 September 2023. YBhg. Dato', who previously held the position of Deputy Chief Executive I of CIDB, has served for 22 years in the organisation by leading the Technology Development Sector, Contractor & Levy Sector, Enforcement Sector and was once the State Director of CIDB Selangor. YBhg. Dato' has served the Government and been involved in the construction industry for more than 34 years, including as a Quantity Surveyor in the Public Works Department for 14 years.

The Editorial Team has the pleasure to interview with YBhg. Dato' on his vision as the fifth Chief Executive and his hopes for CREAM. Lets see what he has to say ...

What is your vision as the new CEO of CIDB Malaysia and what are significant changes that you want to introduce under your helm?

There are a few key changes that I want to bring to the industry. Emphasizing sustainability should be a top priority. Promoting green building practices, reducing carbon emissions, and minimizing environmental impact should be central to the industry's agenda. Next is to encourage the adoption of digital technologies, construction automation and innovations that improve efficiency, reduce costs, and enhance safety. Third, to invest in training and upskilling programmes for the construction workforce, which includes promoting safety training, diversifying the workforce, and addressing labour shortages through education and apprenticeship initiatives. Fourth, to encourage research and development in construction materials, methods, and technologies as it would lead to breakthroughs in areas like sustainable construction materials or more efficient construction processes. Fifth, to prioritise worker safety above all else by implementing strict safety protocols and encourage a culture of safety throughout the industry.

It is essential for CIDB Malaysia to work collaboratively with various stakeholders, including government agencies, construction firms, labour unions, and environmental organisations, to implement these changes successfully.



"It is essential for CIDB Malaysia to work collaboratively with various stakeholders, including government agencies, construction firms, labour unions, and environmental organisations, to implement these changes successfully."

CIDB Act 520 spells out that one of CIDB's functions is to promote, stimulate, and undertake research into any matter relating to the construction industry. How does CIDB play its part for CREAM to carry out this function?

CIDB Malaysia plays a vital role in promoting research and development (R&D) within the construction sector. CIDB allocates funds or provides grants to CREAM for conducting R&D projects. These projects can focus on areas such as sustainable construction, innovative building materials, and construction technologies. CIDB also collaborated with universities and academic institutions to promote R&D in the construction sector. CIDB facilitates partnerships between construction companies and R&D organisations. For instance, this year, CREAM has signed a memorandum of understanding with YTL Cement, who has pledged to grant RM1 Million for R&D purposes.

Besides, CREAM and CIDB are also active in organising conferences, seminars, and workshops to facilitate knowledge sharing among construction industry professionals. These events can showcase the latest research findings and innovations, encouraging the adoption of new technologies and practices. CIDB also revises or adapts construction regulations and standards based on the findings of R&D initiatives done by CREAM. This is to ensure industry practices remain up-to-date with the latest technological advancements and safety standards.

CIDB has invested a lot on the CREAM's Makmal Kerja Raya Malaysia. What is your hope for MKRM?

CREAM-MKRM should serve as a hub for cutting-edge research and innovation in the field of civil engineering and construction to support and facilitate research projects that lead to new technologies, materials, and construction methods. This hub facilities should play a pivotal role in improving the quality and safety of construction projects in Malaysia. This can be achieved by conducting rigorous testing and quality control procedures on construction materials and methods. CREAM-MKRM can also be a critical resource for testing the safety of construction materials, equipment, and structures. This helps in ensuring buildings and infrastructure projects are structurally sound and resilient.

Besides, CREAM-MKRM should foster collaboration between industry stakeholders, including construction companies, researchers, government agencies, and educational institutions. This collaboration can lead to practical solutions for industry challenges. The laboratory might also offer educational programs and training sessions for construction professionals to keep them updated with the latest advances and best practices in the field. Establishing partnerships and collaborations with international research institutions and laboratories can also help MKRM stay at the forefront of global construction research and innovation.

CREAM has introduced some new programmes this year such as the CREAM Webinar Series, CREAM E-Magazine, and monthly industrial visit to CREAM-MKRM. What are your thoughts and hopes for these programmes?

CREAM Webinar Series and e-magazines are excellent tools for disseminating knowledge and sharing the latest research findings, best practices, and innovations in the construction industry. These platforms can help bridge the gap between researchers, practitioners, and policymakers, as well as promoting a culture of continuous learning. Covering a diverse range of topics in the construction sector can cater to the varied interests and needs of the industry.

Offering webinars and e-magazines online can ensure valuable information reaches a global audience. It is important that these programmes are accessible to a wide audience, including professionals, students, and researchers in the construction field. Interactive elements in webinars, such as Q&A sessions or panel discussions can enhance engagement and provide participants with the opportunity to ask questions and gain deeper insights from experts.

Monthly industrial visits to CREAM-MKRM can offer valuable hands-on experiences for professionals in the construction industry. It provides an opportunity to witness real-world applications of research and technology and encourages other stakeholders in the construction sector to implement more meaningful and impactful research and educational initiatives.

How do you see this CREAM changing in the next five years?

Given the growing emphasis on sustainability in the construction industry, CREAM is likely to expand its research efforts in this area. This may involve studying green building materials, energy-efficient construction techniques, and sustainable construction practices. Research in construction automation, robotics, and autonomous construction machinery can also be a focus leading to innovations in construction site's efficiency and safety.

Collaborative and interdisciplinary research may be further developed, where CREAM might partner with experts in fields such as architecture, engineering, environmental science, and urban planning to address complex construction challenges holistically. Engaging in international research collaborations with universities, research organisations, and industry partners can help CREAM access global expertise and stay at the forefront of construction research.

It is hoped that efforts to expand educational programmes and training initiatives like webinars, online courses, workshops, and certifications to equip construction professionals with the latest knowledge and skills will be a priority. CREAM might also be more forthcoming in exploring various funding sources, including public-private partnerships, industry sponsorships, and government grants, to support its research endeavours.

SAFETY & HEALTH, ENVIRONMENT AND QUALITY (SHEQ) DAY 2023



by Ts. Syed Hazni Abd Gani and Muhamad Azam Azmai



On 19 September 2023 at World Trade Centre Kuala Lumpur, the Construction Industry Development Board (CIDB) Malaysia celebrated industry players who have successfully achieved outstanding achievements in safety & health, quality, and environmental sustainability in conjunction with Safety & Health, Environment and Quality (SHEQ) Day 2023 towards making safety & health, quality, environmental sustainability a culture in the construction sector.

The ceremony was launched by the Minister of Public Works, YB Dato Sri Alexander Nanta Linggi. The Secretary General of the Ministry of Public Works, Datuk Seri Hj. Hasnol Zam, Deputy Director General of the Expert Sector, Public Works, Datuk Sr Amran Haji Mohd Majid and CIDB Malaysia Chief Executive, YBhg. Dato' Sr. Mohd Zaid Zakaria were among the dignitaries present.

In the quality assessment, the average QCLASSIC assessment score in 2022 has increased compared to 2021, from 73% to 76%, while the highest score until 2022 is 90%. Due to the increase in QCLASSIC scores from year to year, CIDB has determined that only projects that score 85% and above will receive the QCLASSIC recognition award starting in 2019. In 2022, a total of 248 projects have applied for QCLASSIC assessment. During the event, a total of 15 contractor and developer companies received recognition for 16 building construction projects that have been assessed in 2022.

For safety and health assessment, SHASSIC, a total of 107 projects have been assessed and 11 projects successfully received SHASSIC excellence recognition involving 9 contractor companies and 10 developers. Meanwhile, 30 MyCREST and Sustainable INFRASTAR assessments have been conducted with more than 50 applications received. Through these two programmes, it has successfully produced 583 facilitators for MyCREST and 135 Sustainable INFRASTAR facilitators from industry players who have been equipped with sustainable construction knowledge to support both rating schemes.



At the ceremony, Dato Sri Alexander Nanta Linggi announced the Supreme SHEQ Award, an additional award that will be opened in 2024. The award is reserved for projects that successfully carry out all three ratings with the highest assessment scores for Quality (QCLASSIC), Safety & Health (SHASSIC), and Environmental Sustainability (MyCREST or Sustainable INFRASTAR).

QCLASSIC and SHASSIC assessments have been recognised in the National Construction Policy 2030. The QCLASSIC programme has been indicated as a compulsory assessment for all public and private housing projects through the National Housing Policy (DPN) issued by the Ministry of Local Government Development. The National Affordable Housing Policy (DRMM) issued by the same ministry has also mandated QCLASSIC assessment to be carried out on all Affordable Housing Projects.



*YBhg. Dato Sri Alexander
Nanta Linggi, Minister of
Public Works*

Since 2017, CREAM through the Construction Assessment Centre (CASC) has acted as the main function in carrying out activities related to assessment and certification of Quality (QLASSIC), Safety and Health (SHASSIC) and Environmental Sustainability (MyCREST & Sustainable INFRASTAR). To date, the Construction Assessment Centre (CASC) of CREAM has conducted more than 3000 project assessments on construction sites. CREAM has gained the trust of the industry to carry out assessment works for the construction industry players in Malaysia. More details regarding QLASSIC, SHASSIC, MyCREST & INFRASTAR Sustainable Assessment can be obtained through CREAM representatives or CREAM's official website (www.cream.my).



Professional and Leadership Roles in Construction Digitalisation



by Ts. Dr. Hj. Mohd Khairolden Ghani

INTRODUCTION

Organizations are facing unprecedented challenges to cope with an increasingly changing digital environment. Emerging digital platforms, growing demand for digital products and services and constantly connected customers are some of the digital-led challenges organizations face. Digital skills are vital to most construction projects, with the latest technologies being used to innovate and develop buildings and infrastructure. Digital construction is exciting because it's only just getting started. The changes it is influencing across the industry are having a positive impact, including a rise in eco-friendly materials and more in-depth planning for projects of every size. The increasing digitalization of business and its processes has shown that nothing works if the human element is overlooked.

As such, due to technological changes, there are bound to be consequential or complementary changes in other areas of the organization to create a perfect technology-organizational fit and remain relevant and competitive, as those that do not change put themselves at risk of failure. In order for traditional organizations to be successful in this dynamic environment, major organizational transformation to fit the digital environment is required and such transformation demands effective digital leadership.

As organisations seek their footing in a turbulent business environment, they require strong leaders at the helm who not only articulate a vision people can rally around but also create the conditions that enable digital maturity, attracting the best talent and bringing out the best in the talent they attract.

CONSTRUCTION 4.0 IN MALAYSIA

At this point in time, we can safely state that the overall knowledge, technology relevance, and implementation of the Construction 4.0 (C4.0) technologies among Malaysian contractors and professionals are at a moderate level. This also shows that their degree of readiness for widespread adoption and deployment of C4.0 technologies lags a bit behind what policymakers had anticipated. However, there is room for improvement to tackle this problem. There is a need for interventions to increase the knowledge, technologies' relevance, and implementation, which will also indirectly increase the Malaysian construction industry's readiness toward C4.0 including improving the general awareness of C4.0, relevant training programmes, and skill enhancement programmes.

From the professionals' point of view, all organisations have a limited capacity for change, especially under the current economic environment where most of them are under constant pressure to cut costs and save money. Risks and challenges will have to be faced before true change begins. Failure to do so may render the loss of vital talented manpower to other companies willing to pay the extra cost as is currently happening to some Engineering companies in Johor Bahru to Singaporean companies.

DEFINITION OF DIGITAL LEADERSHIP

There is no one standard definition for digital leadership. It can mean leaders with the ability to create a clear and meaningful vision for the digitalization process and the capability to execute strategies to actualize it. Digital leadership is also defined as the strategic use of the company's digital assets to achieve its business goals.

Consequently, this implies that digital leadership is considered a critical driver for digital innovation in the construction business. Leaders should be forward-thinking and proactive, supportive, cautious, full of vision and drive to lead the organisation. While there is a characterization of leadership in driving initiatives in the construction industry, such as sustainable organizations, there is limited consideration of digital leadership characteristics in the construction industry. Hence, more studies on digital leadership in the construction industry are most welcome to address leadership as a central construct influencing digital adoption.

LEADERSHIP INFLUENCE ON DIGITAL TRANSFORMATION

Considering that leadership is critical to organizational innovation's success, construction business leaders are key to driving digital transformation in their organizations. While digital technologies are changing the landscape of doing business, traditional business models are considered less suited to drive digital transformation. From a strategic management point of view, construction business leaders should be at the forefront of driving the digitalisation agenda. However, this requires that they possess digital leadership skills and use appropriate approaches to influence digital transformation in their organizations.

There are opinions that culture is considered one of the main obstacles to digital transformation. A lot of organizations miss the point when establishing the right digital culture either because of inherent differences or the lack of opportunities for employees to push themselves and be rewarded for their efforts. To address the same, leaders should create measures that facilitate the adoption of digital practices while influencing their employees to become digitally savvy. Leaders, via their ethics and conduct, must set the right tone for the success of digital transformation. They should formulate a strategic vision for digital transformation which can further be cascaded into specific actions for other employees.

In ensuring the success of digital transformation, leaders need to get all stakeholders on the same page, communicate the strategic value, persuade the importance of digital and convince them about its positive effect on business growth. For that to happen, leaders will have to place culture at the centre of digital transformation and lead the initiative.

CONCLUSION

Digital technologies are now an integral part of our built environment. Digitalization is not only about technology, but the ability to allocate the right people at the right place and at the right time to ensure the transition is successful. The technological adoption of construction processes requires the future workforce to be equipped and ready with new skills to enable them to adapt to the changing industry environment.

Human capacity is critical as C4.0 advocates the values of growth and resilience. The readiness of industry stakeholders to be aware of the latest technological advancement and receptive to change is vital to ensure the continuous competitiveness of human capital. The industry would be able to achieve the next level by adopting the next set of strategies, such as educating potential candidates, deliverable of knowledge, training and upskilling the existing employees. Without the participation of new talents, C4.0 would suffer from slow progress and risk missing the digital transformation.

The role of professionals and leaders in digitalisation is vital to drive the needed transformation. With guidance from the highly insightful and authoritative Construction 4.0 Strategic Plan, it has the potential to transform the industry and allow us to continue to play a central role in creating an inspiring vision for the nation.

How to get RM13,050 from CREAM by paying only RM4,000?

- go for CQMS certification

Contractor's Quality Management System (CQMS) CIS 29:2021 is an independent system that evaluates a contractor's quality management implementation based on the Construction Industry Standard (CIS 29). Serving as an affordable alternative to ISO 9001, CQMS is ideal for budget-conscious contractors who prioritize the quality of their work. By choosing CQMS, contractors can maintain quality control, meet client standards, and gain additional benefits for PPK registration in Malaysia. Implementing CQMS also earns contractor's extra points in MCORE/SCORE CIDB assessments for PPK registration.

A certification fee of RM4,000 covers a one-day training, documentation for the quality manual, third-party audit and certification of CIS29:2021. Applicants will also receive free template for quality manual, free CIS 29:2021, free attendance to CREAM Webinar Series and CCD Points worth RM13,050.

Bundle Package (worth RM13,050) *inclusive:*

Certification fee (RM4,000)

Free Training including F&B - worth RM600 for 2 pax

Free Documented Quality Manual for Certification purposes - worth RM5,000

Free Hardcopy & Softcopy of CIS 29:2021 - worth RM50

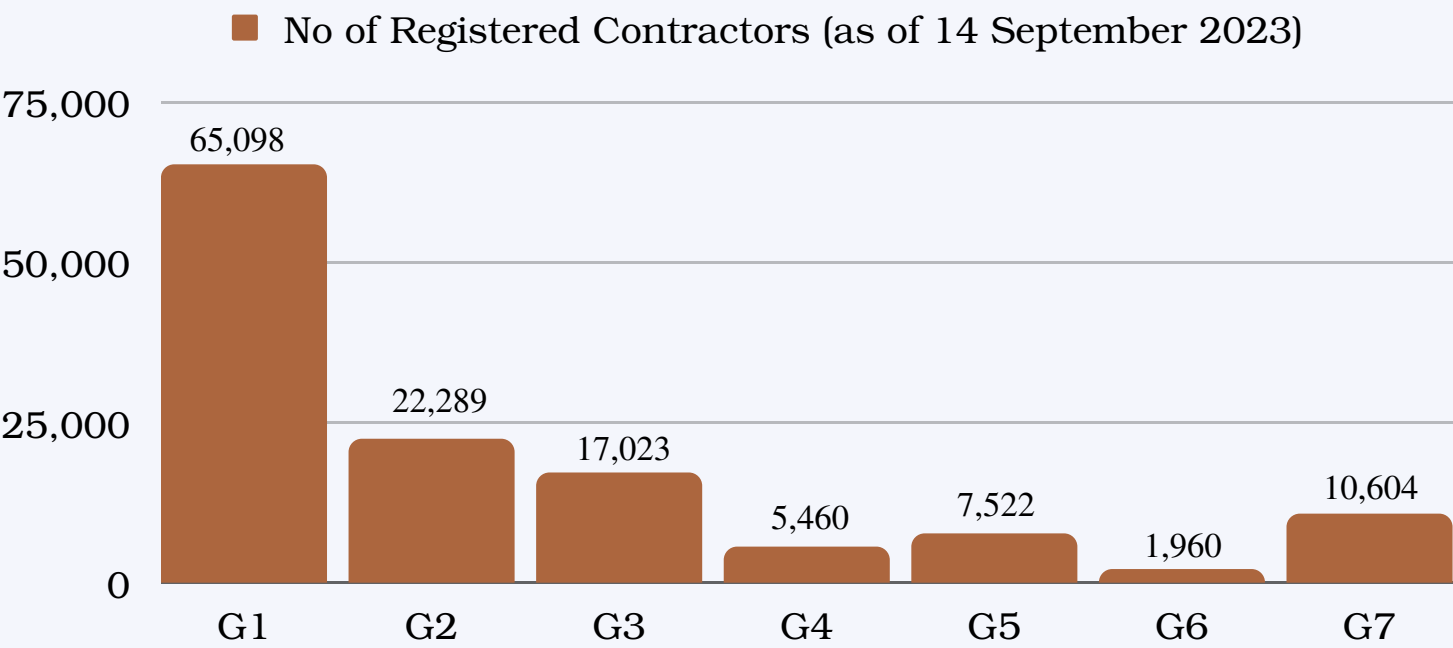
Free attendance to CREAM Webinars Series for 1 year with 10 CCD Points per webinar will be given to an attendee (*approx. 240 CCD Points per year*) - worth RM3,400

You Only Pay
RM 4,000

Contractor Registration Certificate

Perakuan Pendaftaran Kontraktor (PPK)

Effective from 20 July 1995, it is **mandatory for all contractors** whether local or foreign to **register with the Construction Industry Development Board Malaysia (CIDB) under Section 25 of Act 520 (Amendment 2011)** before undertaking and completing any construction work in Malaysia except those who are exempted under Section 40(1) of the Construction Industry Development Board Act 1994 (Act 520).



(Source: CIDB Malaysia)

Contractor Grades of Registration	Tendering Capacity	Size of Company
G7	No limit	Large construction company
G6	Not exceeding RM10 million	
G5	Not exceeding RM5 million	Medium size construction company
G4	Not exceeding RM3 million	
G3	Not exceeding RM1 million	Small size construction company
G2	Not exceeding RM500,000	
G1	Not exceeding RM200,000	

(Source: Construction Industry Development Board Malaysia (CIDB). (2021). Guideline for Small and Medium Enterprise Developers and Contractors - Migration from Conventional Methods to IBS in the Malaysian Construction Industry.)

news and announcements





Heartiest congratulations to YBhg. Dato' Sr Mohd Zaid Zakaria, Chief Executive, Construction Industry Development Board Malaysia (CIDB) on his conferment of Darjah Kebesaran Dato' Paduka Setia Mahkota Kelantan (D.P.S.K) which carries the title of “Dato” by Kebawah Duli Yang Maha Mulia Sultan Muhammad V in conjunction with His Royal Highness 54th Birthday Celebration on the 30th September 2023.

Want a Double Tax Deduction from Lembaga Hasil Dalam Negeri Malaysia? **TALK TO US**



CREAM is officially recognised by the Ministry of Finance (MoF) as Approved Research Institute under Section 34(B) of the Income Tax Act 1967.

With this status, any person/company that makes a contribution/payment to CREAM is eligible for a double tax deduction. Double tax deduction is applicable for the following expenditure.

- Cash contribution for research activities
- Payment for the use of research services



CONTROLS

highlights on **September** activities

Highlights on September Activities

Advocating Sustainable Construction Roadmap for Malaysia: Promoting Long-Term Sustainability

Date : 5-7 September 2023

Venue : Sasana Kijang, Kuala Lumpur



CREAM was invited to be a panellist for Climate Governance Malaysia 2023. The event was in conjunction with first national summit on climate governance held on 5-7 Sept 2023 at Sasana Kijang, Kuala Lumpur. The event was supported by Companies Commission of Malaysia [or Suruhanjaya Syarikat Malaysia, SSM, SME Corp. Malaysia, FIDE forum, Bank Negara's directors network, the Institute of Corporate Directors Malaysia (ICDM), the Malaysian Institute of Corporate Governance (MICG) and the United Nations Development Programme (UNDP).

Day 3, 7 Sept 2023 Panel Session IV: Construction Industry

Moderator: Hans Weemaes, Director Sustainability, Turner & Townsend

Speakers:

1. Hannah Lyana Lee, Head, Strategy and Transformation, CIMA.
2. Ir. Chan Huan Ong, Assistant General Manager, IJM IBS Sdn. Bhd.
3. Ts. Dr. Hj Mohd Khairolden Ghani, Manager, Construction Research Institute of Malaysia (CREAM).

Hannah mentioned that although the construction industry contributed 39% of all global greenhouse emissions, the sector was still a vital part of the economy; therefore, the industry has to adopt sustainable practices to reduce its emissions.

Hannah also added that the construction sector inevitably generated some waste material and any computation of its carbon footprints had to include the type of building materials used and emissions during the construction stage. Going forward, she encouraged the industry to adopt the motto: "Build more for less". She gave examples on this: utilising ultrahigh performance cement to optimize material usage and employing technology.

Highlights on September Activities

Advocating Sustainable Construction Roadmap for Malaysia: Promoting Long-Term Sustainability

Date : 5-7 September 2023

Venue : Sasana Kijang, Kuala Lumpur

Dr. Hj Mohd Khairolden stated that CREAM had been tasked to look into three areas: evaluating green construction products; determining the minimum greenhouse gas protocols and drawing up a digital sustainable ecosystem.

Ir. Chan advocated employing technology to reduce the amount of cement used. Unlike traditional practices of cement usage based on the number of workers, the way forward was to leverage on innovation, employ local workers and improve labour and material productivity. He added that the focus on upgrading and sustainability should be done concurrently as it would provide more innovative solutions.

Key takeaways:

- We can't stop growth because it is inevitable but we can partner it with sustainability. - Hannah Lyana Lee, Head, Strategy and Transformation, CIMA.
- We have no roadmap looking specifically into sustainable construction practices. The government and the industry should embark on this roadmap and promote ESG aggressively – Ts. Dr. Hj Mohd Khairolden Ghani, Manager, Construction Research Institute of Malaysia (CREAM).
- The focus on upgrading productivity and sustainability must go hand in hand. - Ir. Chan Huan Ong, Assistant General Manager, IJM IBS Sdn. Bhd.

The objective is to empower listed companies and SMEs in Malaysia to build climate resilient businesses and contribute to climate governance through enhanced knowledge and understanding of climate action and best practices.



Highlights on September Activities

DIG.IT.ALL Forum Series 2023- Embracing Digital Technology

Date : 6 - 7 September 2023

Venue : Pulau Spring Resort & AME Construction IBS Facility



The second series of the DIG.IT.ALL Forum Series took place on the 6 and 7 September 2023 in Johor at Pulau Springs Resort and AME Construction IBS Facility, respectively. The event, in collaboration with the Malaysia Board of Technologists (MBOT) has received a total participation of more than 60 people. It was held to raise awareness among professionals on technologies in Construction 4.0 and the latest technologies being used in the construction industry.

The first day of the event featured 8 leading figures in the construction technology field, who shared their current project and vast experience to the audience who came from different backgrounds and studies. Current trends and projects involving digital technologies including the projects in public and private sector were presented in detail throughout the morning session, as the event continued to a specific topic involving the artificial intelligence (AI) later in the afternoon session. The day was concluded with hi tea and networking among the audience.



Highlights on September Activities

Kursus Pembinaan Berdaya Tahan 2023- Zon Selatan

Date : 6-7 September 2023

Venue : Universiti Teknologi Malaysia (UTM) Johor



Day 2 of the event was the technical tour conducted in Senai, Johor. This time around, AME Construction was the host, introducing their IBS technology at their IBS facility which focuses on the steel structure production and assembly. Set up in 2008, the facility comprises 18,000 square metres of fabrication yard, with 5-, 10- and 15-tons overhead cranes involved in daily work routine. A total of 20 participants were involved during the technical visit and highlights of the work and technologies being used were presented by the AME Construction team before a technical visit was conducted at the fabrication yard. The use of autonomous machines in several sequences of the steel structure assembly work was the highlight during the tour, as well as the usage of BIM technology in daily work routine. Overall, it was truly a tremendous experience to witness the overall process of IBS technology, particularly in the steel structure field as this could help boost the experience of the professionals and uplift the construction industry in Malaysia to stay competitive with other nations globally.

The DIG.IT.ALL Forum Series will be further conducted in Penang (18 & 19 October 2023) and later in Kuala Lumpur on 15 November 2023. For more detail, please visit CREAM website at www.cream.my or contact Mr. Shahir at shahir@cream.my.

Highlights on September Activities

Kursus Pembinaan Berdaya Tahan 2023- Zon Selatan

Date : 6-7 September 2023

Venue : Universiti Teknologi Malaysia (UTM), Johor Bahru



On September 6th and 7th, 2023, Kursus Pembinaan Berdaya Tahan took place at Universiti Teknologi Malaysia (UTM), Johor Bahru. 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 Guidelines for Landslide Vulnerability Assessment and Risk Index for Critical Infrastructure in Malaysia by Ts. Dr. Mastura Azmi. The last session was a talk on landslides and debris flows by a representative from Jabatan Mineral & Geosains Johor.

On the second day, the participants gathered at Gunung Pulai, Pontian, to visit the site where landslide happened. After the visit, the participants gathered again at UTM to continue with a session with Prof. Dr. Zulkifli Yusop on Climate Change & Flood in Malaysia. The course then continued with a session on Overview on Guidelines and Manual for Flood Risk Assessment and Flood Vulnerability by Datuk Ir. Haji Abdullah Isnin and then ended with a session on *Penggunaan Dokumen dan Pengiraan Risiko Menggunakan* Guidelines and Manual for Flood Risk Assessment and Flood Vulnerability Index for CI in Malaysia by Dr. Nor Eliza Alias.

Kursus Pembinaan Berdaya Tahan 2023 will continue to be organised in the eastern zone on 8 and 9 November 2023, at Kuala Terengganu, Terengganu.

For more information, please contact Sr. Yusrin at yusrin@cream.my or 03-2779 1479.

Highlights on September Activities

Bengkel Penyelarasan Input Inisiatif Global Innovation Index (GII)

Date : 7 September 2023

Venue : Pulse Grande Hotel, Putrajaya



On 7 September 2023, CREAM attended the Input Coordination Workshop session for the Global Innovation Index (GII) Report at Pulse Grande Hotel, Putrajaya.

The GII report aims to provide data that can measure the capacity and output of economic innovation to assist policy makers in evaluating innovation performance and making accurate innovation policy decisions. There are 81 indicators measured in the GII Report from all relevant ministries and agencies.

The Ministry of Science, Technology and Innovation (MOSTI) as the coordinator of the GII Report for 2023 is in the process of finalising information regarding initiatives, programmes or projects related to all indicators and inviting representatives of the Ministry of Public Works (KKR) and agencies to the workshop session held. CREAM and related agencies under KKR were invited to attend this workshop session that aims to:

- To play a role as a platform for verification and validation of initiative and programme information submitted by each Ministry;
- Provide disclosure on the Global Innovation Index Data Model System; and
- Prepare a report on the results of the workshop for the information of the next top management to be brought to the Inter-Agency Steering Committee for Global Innovation Index Competitiveness Monitoring.

CREAM hopes that the contribution given can provide positive input to increase the level of innovation in the country in the future.

Highlights on September Activities

Verification Workshop Of Data Collection And User Requirement Of Digital Self-Assessment System For Productivity Measurement Tool (PMT)

Date : 8-9 September 2023

Venue : Zenith Hotel Putrajaya



On 8th to 9th September 2023, the second workshop for the development of the System Digital PMT was conducted at the Zenith Hotel Putrajaya with attendees 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). Previously, during the first workshop, which was held in June 2023, Committees were equipped with the knowledge of the new CIS 30:2021 Productivity Measurement Tool (PMT).



This exercise was part of the Committee's preparation in conjunction with the PMT Pilot Test Study, which was conducted from June till the end of August. The second workshop was then conducted to verify the PMT data collected during the pilot study of 10 participating Government projects, whereby all issues and challenges faced by the Committees were discussed and addressed for the improvement of the PMT digital system that shall be developed and ready for used by the end of next year.



Highlights on September Activities

4th Asia Pacific Conference On Industrial Engineering and Operations Management (IEOM 2023)

Date : 12-14 September 2023

Venue : CFVG-HCM, University of Economics Ho Chi Minh City, Vietnam



IEOM Society International has organised the 4th Asia Pacific Conference on Industrial Engineering and Operations Management in Ho Chi Minh City, Vietnam during September 12 to 14, 2023. The host and venue was CFVG-HCM, University of Economics Ho Chi Minh City, while the Co-Hosts were University of the West of England, UK, Birmingham City University, UK and Universitas Sebelas Maret, Indonesia.

The conference has provided an opportunity for academics, researchers, and practitioners to exchange ideas and explore recent developments in the field of Industrial Engineering and Operations Management. The conference aimed to foster networking, collaboration, and joint effort among the conference participants to advance the theory and practice, as well as to identify major trends in Industrial Engineering and Operations Management.

The IEOM Society International is a non-profit professional organisation, dedicated to the advancement of industrial engineering and operations management discipline for the betterment of humanity. The IEOM Society International is also a global platform for academics, researchers, scientists, and practitioners to exchange ideas. Most importantly, it provides insights into the latest developments and advancements in the fields of Industrial Engineering and Operations Management. The IEOM Society International has successfully planned and organised international conferences around the world including Dhaka in 2010, Kuala Lumpur (2011), Istanbul (2012), Bali (2014), Dubai (2015), Orlando (2015), Kuala Lumpur (2016), Detroit (2016), Rabat (2017), Bristol, UK (2017), Bandung (2018), Paris (2018), Washington DC (2018), Pretoria (2018), Bangkok (2019), Pilsen (2019), Toronto (2019), Riyadh (2019), Dubai (2020), Detroit (2020), Harare (2020), Singapore (2021), Sao Paulo (2021), Haiti (2021), Harbin (2021), Rome (2021), Bangalore (2021), Indonesia (2021), Monterrey (2021), Istanbul (2022), Nigeria (2022), Orlando (2022), Paraguay (2022), Rome (2022), India (2022), Sydney (2022), Manila (2023), Zambia (2023), Peru (2023) and Houston in 2023. The IEOM Global Community has more than 20,000 members.

Highlights on September Activities

4th Asia Pacific Conference On Industrial Engineering and Operations Management (IEOM 2023)

Date : 12-14 September 2023

Venue : CFVG-HCM, University of Economics Ho Chi Minh City, Vietnam



There were two delegates from the Construction Research Institute of Malaysia (CREAM) participating in the conference. The conference is beneficial in expanding networking opportunities as it provides an excellent platform to network with professionals, researchers, and experts from around the world. For e-magazine professionals, this can be a chance to connect with potential collaborators, contributors, advertisers, or even readers. Building a strong network can help e-magazines gain exposure and grow their reach. Other than that, the conference also helps the public in terms of knowledge related to exchange. Conferences also often feature presentations, workshops, and panel discussions on a wide range of topics related to industrial engineering and operations management. Attending these sessions can provide valuable insights and ideas that can be applied to improve the production, distribution, and management processes.



An international conference can help professionals stay informed about the latest developments in digital publishing, content creation, distribution strategies, and technology innovations. Conferences often generate a wealth of content in the form of presentations, papers, and discussions. IEOM conferences often feature research papers and case studies related to industrial engineering and operations management. E-magazines can benefit from studying these materials and gaining deeper understanding of industry-specific challenges and solutions, which can help inform their content and editorial decisions. International conferences bring together professionals and researchers from diverse backgrounds and regions. This diversity can provide professionals with a broader perspective on global trends, cultural differences, and emerging markets that can be relevant to their content and distribution strategies.

In conclusion, international conferences like IEOM offer a variety of opportunities in terms of networking, learning, content generation, and exposure, all of which can contribute to the growth and success in the ever-evolving digital publishing landscape.

Highlights on September Activities

Workshops on the Development of CIS for Risk Assessment & Landslide Vulnerability Assessment and Risk Index for Critical Infrastructure

Date : 18 - 20 September 2023

Venue : Cyberview Resort & Spa



CREAM has organised 2 workshops on the development of the Construction Industry Standard (CIS) for Flood Risk Assessment & Construction Industry Standard (CIS) for Landslide Vulnerability Assessment & Risk Index for Critical Infrastructure that were held on 18 - 20 September 2023 at Cyberview Resort & Spa. These 2 workshops have discussed and finalised the final drafts of CIS (flood) & CIS (landslide) before submitting these 2 documents to CIDB for public comments.

Among the committee that has been involved in this development of CIS are as follows :

Landslide : CIDB, JMG, JKR, NADMA, PLANMalaysia, JKT KPKT, MPAJ, USM, UTM, IKRAM, Board of Geologists, BEM, MBAM, ACEM, UEM, VERITAS PLANNING SDN BHD and SLOPEWATCH.

Flood : CIDB, JPS, NAHRIM, DBKL, NADMA, KKR, UTM, UiTM, UTHM, MBAM, ACEM, VERITAS ARCHITECTS & DR NIK & ASSOCIATES

The purpose of these documents is to establish the minimum requirements and duties for implementing flood risk assessment and landslide risk assessment in Malaysia, as well as to provide guidance on its implementation.

Highlights on September Activities

CREAM -MKRM Laboratory Tour 2023

Date : 21 September 2023

Venue : Makmal Kerja Raya Malaysia,



It's a pleasure to have representatives from Jabatan Kerja Raya (JKR) Cawangan Arkitek, Cawangan Kontraktor & Ukur Bahan and Cawangan Kejuruteraan Awam & Struktur to visit our CREAM-MKRM last 21st September 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.

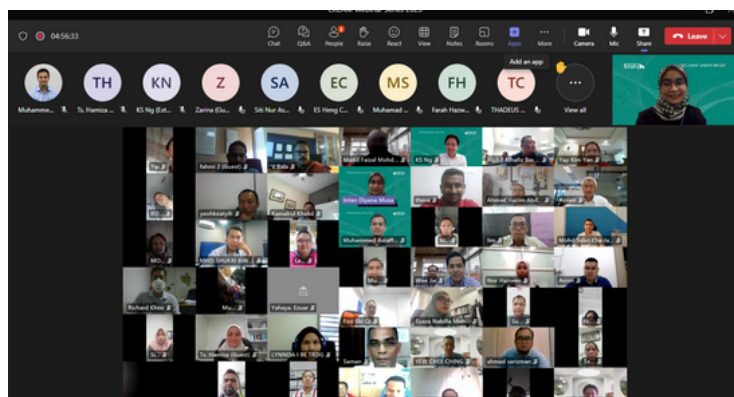
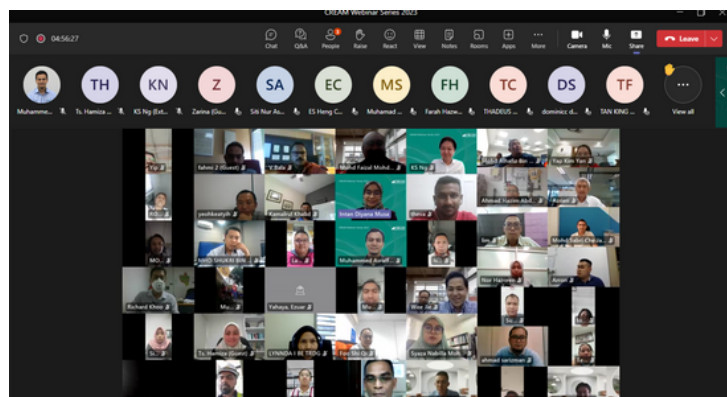
We are always open to visitors, so drop by and say hi! We would love to introduce our facilities and services to you.

Highlights on September 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 "**Enforcement on Scaffolding and Falsework for Safer Construction Sites**".



Session 1: *Perakuan Pematuhan Standard (PPS) for Scaffolding and Falsework*

26 September 2023

Speakers:

- Ts. Nor Hamiza binti Zahar
Senior Manager, Construction Industry Development Board Malaysia (CIDB)
- Mr. Muhammed Asraff bin Abdul Rahman
Manager, Construction Research Institute of Malaysia (CREAM)
- Ir. Ng Kian Seng
Technical Director, Sumi-Tech Supplies Sdn. Bhd.

No of participants: 239 pax

Session 2: *Regulations on Scaffolding and Falsework in Malaysia*

27 September 2023

Speakers:

- Ts. Ahmad Marwan bin Mohamad
Senior Assistance Manager, Construction Industry Development Board Malaysia (CIDB)
- Ts. Ir. Louis Tay
Deputy President, Technological Association Malaysia (TAM)
- Mr. Ahmad Hazim bin Abdul Rahim
Manager, Construction Research Institute of Malaysia (CREAM)
- Ts. Syed Hazni bin Abd. Gani
Manager, Construction Research Institute of Malaysia (CREAM)

No of participants: 240 pax

Highlights on September Activities

Contractor's Quality Management System (CQMS) Auditor Certification Course

Date : 27 September 2023

Venue : Seri Pacific Hotel, Kuala Lumpur



On 27 September 2023, last Wednesday, the Construction Research Institute Of Malaysia (CREAM) organised a Contractor Quality Management System (CQMS) Auditor Certification Course at the Pacific Ballroom, Hotel Seri Pacific, Kuala Lumpur. This course aims to train individuals to obtain certification as a CQMS Auditor for the construction industry. A total of 50 participants were selected and screened based on the main conditions set by the Malaysian Construction Industry Development Board (CIDB).

The conditions include 3 years of working experience in the construction industry, possession of the ISO 9001 Lead Auditor certificate, as well as attending the "Contractor Quality Management System (CQMS) Auditor Certification Course".

The course was delivered by the Chief Executive Officer of CREAM, Ir. M. Ramuseren, with the aim of creating competent and quality CQMS auditors to perform quality system audits to audit contractors throughout Malaysia. This course was implemented for one day with a test to assess the auditor's qualifications.

Highlights on September Activities

CREAM shares MyCREST and Sustainable INFRASTAR with TNB Grid and TNB Research: Paving the Way for Collaboration

Date : 29 September 2023

Venue : TNB Platinum Tower



On the 29th of September 2023, CREAM had a pleasure to meet with TNB Grid and TNB Research team at the prestigious TNB Platinum Tower. The objective of the meeting to talk about potential collaboration for a Sustainable Future where CREAM engaged in a fruitful sharing session on MyCREST and Sustainable INFRASTAR.



upcoming events

KURSUS PEMBINAAN BERDAYA TAHAN 2023



25 MATA CCD (2 KURSUS)
10 MATA CPD (1 KURSUS)

Tarikh: 8 & 9 November 2023
Tempat: Primula Hotel Kuala Terengganu, Terengganu

OBJEKTIF

Untuk memberi pendedahan dan melatih pihak industri dan PBT bagi penggunaan garis panduan yang telah dibangunkan oleh CREAM bagi penilaian risiko bencana tanah runtuh dan banjir di sesuatu kawasan sebelum pembangunan diadakan.

Kursus Pembinaan Berdaya Tahan - Guidelines for Landslide Vulnerability Assessment & Development of Risk Index for Critical Infrastructure in Malaysia

Rabu, 8 November 2023

Kursus Pembinaan Berdaya Tahan - Flood Risk Assessment & Flood Vulnerability Index for Critical Infrastructure in Malaysia

Khamis, 9 November 2023

Sasaran Peserta:

- ✓ Pihak berkuasa tempatan (PBT)
- ✓ Pemaju
- ✓ Kontraktor
- ✓ Perunding

PAKEJ YURAN PENYERTAAN

1 Kursus
RM200/pax

2 Kursus
RM350/pax

Peserta Berkumpulan Min 3 orang
RM150/pax/kursus



Guidelines for Landslide Vulnerability Assessment & Development of Risk Index for Critical Infrastructure in Malaysia telah diluluskan oleh Majlis Negara Kerajaan Tempatan (MNKT) ke-79 2022 untuk digunapakai di peringkat Pihak Berkuasa Tempatan

**DAFTAR
SEKARANG**

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Construction Research Institute of Malaysia

Penceramah:



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Mantan Ketua Pengarah,
Jabatan Pengairan dan Saliran Malaysia



Dato' Paduka Ir. Dr. Che Hassandi Abdullah

Mantan Pengarah Kanan,
CREaTE JKR



Dato' Zakaria Mohamad, P.Geol

Pengerusi,
Geomapping Technology Sdn. Bhd. dan
Board of Geologist



Ir. Hjh. Bibi Zarina Che Omar

Pengarah Teknikal,
Dr. Nik & Associates Sdn Bhd



Dr. Nor Eliza Alias

Pensyarah Kanan, Fakulti Kejuruteraan Awam,
Universiti Teknologi Malaysia (UTM)



Ts. Dr. Mastura Azmi

Pensyarah Kanan, Pusat Pengajian Kejuruteraan Awam,
Universiti Sains Malaysia (USM)

**Para penceramah adalah terdiri daripada Ahli Jawatankuasa Teknikal bagi Pembangunan Garis Panduan Tanah Runtuh & Banjir serta mempunyai pengalaman yang luas di dalam bidang masing-masing*

Che Omar



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EMBRACING DIGITAL TECHNOLOGY

**CCD & CPD POINTS
APPLIED**

Day 1: Industrial Forum

18 October 2023, Wednesday | 8AM – 5PM | Bayview Hotel, Georgetown, Penang

Session 1

Sustainable and Smart Building: Where are we now in Malaysia?

SPEAKER 1:

Ir. Dr. Muhammad Arkam Che Munaaim
Chief Executive Officer, Mega Jati Academy

SPEAKER 2:

Ir. Ooi Zi Xun
Chairman, Malaysia Green Building Council (Northern Chapter)

SPEAKER 3:

Ms. Josephine Tan Mei Ling
General Manager, Penang Green Council

Session 2

Strategic Approach in Enhancing Digitalization Capabilities in Malaysia

SPEAKER 1:

Dr. Mohd Zaliman Mohd Yusoff
Chief Digital Officer, TNB IIsas

SPEAKER 2:

Prof. Dato' Dr. Ahmad Farhan Sadullah
Professor of Transportation Engineering, Universiti Sains Malaysia

SPEAKER 3:

Ts. John Lim Ji Xiong
Executive Director, Digital and Innovation, Gamuda Engineering and Gamuda Land

Day 2: Technical Visit

19 October 2023, Thursday | 8AM – 12PM | Penang

FEES:

**All payments must be made to CREAM. The secretariat will contact you via email and send an invoice for payment purposes*

NORMAL RATE:

RM200
(PER PAX)

STUDENT RATE:

RM100
(PER PAX)



GROUP REGISTRATION:
(MIN 3 PAX PER GROUP)

**GOVERNMENT OFFICIALS,
BEM & MBOT MEMBERS:**

RM150
(PER PAX)

TECHNICAL VISIT:

RM50
(PER PAX)

(limited to 20 pax only - first come, first served basis)

*Participation of the technical visit is prerequisite of the industrial forum

Register here

Walk-in registration is accepted



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

For more info: www.cream.my/dig-it-all
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EMBRACING DIGITAL TECHNOLOGY

Day 1: Industrial Forum

18 October 2023, Wednesday | 8AM – 5PM | Bayview Hotel, Georgetown, Penang

Programme

Time

Registration	8.00 am – 9.10 am
Welcoming remarks by CIDB	9.10 am – 9.20 am
Opening Speech by BEM	9.20 am – 9.30 am
BEM Special Talk on CCC Online Submission	9.30 am – 10.00 am
Refreshment and Networking	10.00 am – 10.30 am
Session 1: Sustainable and Smart Building: Where are we now in Malaysia?	10.30 am – 12.30 pm
Q&A Session	12.30pm – 1.00pm
Lunch and Networking	1.00 pm – 2.15 pm
Session 2: Strategic Approach in Enhancing Digitalization Capabilities in Malaysia	2.15 pm – 3.45 pm
Q&A Session	3.45 pm – 4.15 pm
Refreshment & End of Programme	4.15pm - 5.00 pm

EMBRACING DIGITAL TECHNOLOGY

Day 2: Technical Visit

19 October 2023, Thursday | 8AM – 12PM | Penang

Programme

Registration

Briefing/Prep Talk by Site Owner

Technical Visit

Session Wrap Up & Q&A Session

Brunch

End of Programme

Time

8.00 am – 9.00 am

9.00 am – 9.15 am

9.15 am – 10:45 am

10:45 am – 11:15 am

11.15 am – 12:00 pm

12 pm

Learn more:



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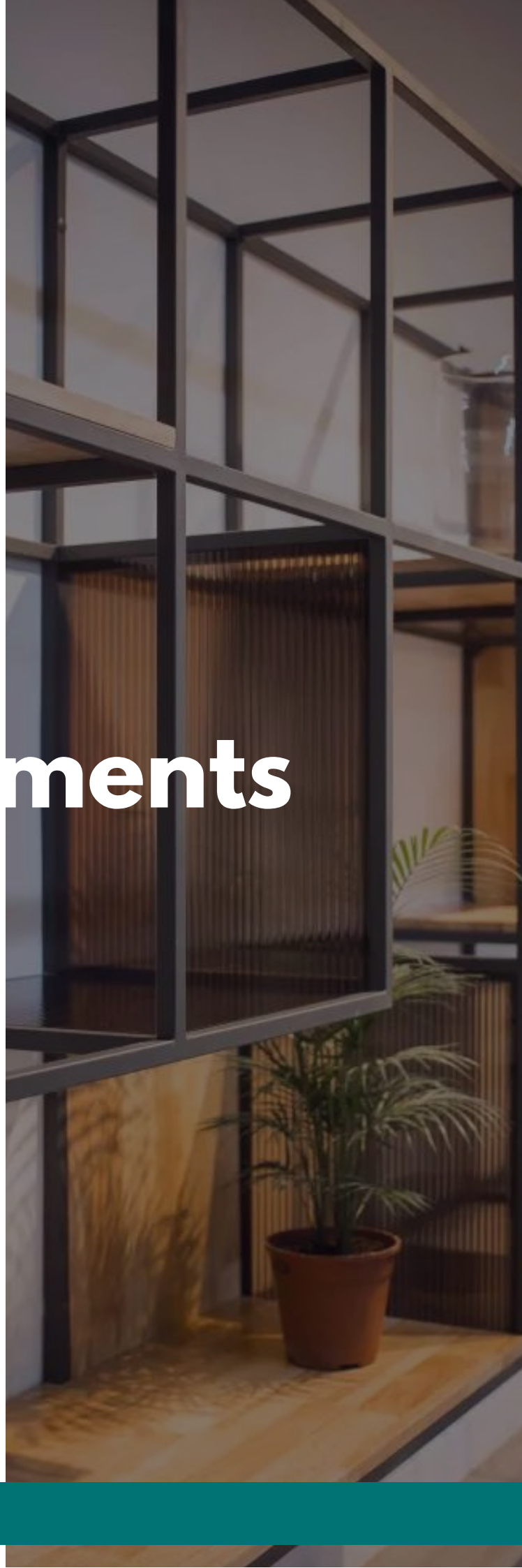


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- ✓ **Digitalisation in Construction**
- ✓ **Construction and Innovation Technology**
- ✓ **Social and Economic Impacts in Construction**
- ✓ **Sustainable and Resilient in Construction**
- ✓ **Smart Cities**
- ✓ **ESG in Malaysia's Civil Society**

**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

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