

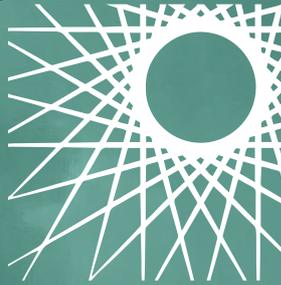
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## EMBEDDING SUSTAINABILITY

28<sup>th</sup> April 2023

Kuala Lumpur

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## WELCOMING ADDRESS

### President of CABE



**Joseph Birt**  
President of CABE

On behalf of the Chartered Association of Building Engineers (CABE), we warmly welcome you to the 2023 CABE Malaysia International Conference in the beautiful city of Kuala Lumpur.

Themed Embedding Sustainability, the conference provides me with the opportunity to mark such a milestone for our Malaysia Chapter, and the first opportunity to visit since the inception of CABE Asia Pacific Office. I am privileged to fly to Kuala Lumpur to officiate this important event in the Asia Pacific region.

Over the last few years, CABE Members in Malaysia have made tremendous contributions in education, research, academic development and professional practice, resulting in impacts in many sectors of society. At this conference let us celebrate what we, as a global professional community, have achieved. Additionally, our future vision is to create even greater value to all corners of the globe. This conference will be one for us to share our thoughts and exchange ideas on how to chart our journey forward to reach new heights.

Today's well-structure conference programme will allow members, and building engineers, to renew friendships, extend networks, and jointly explore the direction of current and future research. We hope that you will have a productive and fulfilling time at the conference.

To put a conference of this magnitude together is not a small task. To that end, I wish to thank the Malaysia Chapter Committee led by the Chair Sr. Isacc Sunder Rajan Packianathan and the Secretary Hong Kit Leong for providing their wisdom and guidance and organising all the sessions and tracks. Isacc's tireless efforts on fund-raising for the conference is much appreciated. On behalf of the Association, I would like to thank Lighthouse Club Kuala Lumpur for co-organising the event with our Malaysia Chapter and hosting a dinner on the same day of our conference. I am indebted to all of the sponsors, and endorsing organisations, for providing their generous support. Lastly, I would like to thank all the conference participants for their proactive support which are the foundation of this conference.

Thank you very much.



# Embedding Sustainability

28<sup>th</sup> April 2023

Kuala Lumpur



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malaysia international conference 2023

## WELCOMING ADDRESS

### Chief Executive Director of CABE

**Dr. Gavin Dunn**  
CEO of CABE



It is my pleasure to welcome you to the CABE Malaysia Chapter’s International Conference 2023. This year the conference’s distinguished guests will focus on the important theme of Embedding Sustainability and discuss the challenges and the opportunities that this brings.

Taking place in person and online, the full-day conference will allow you to explore the subject in great detail, and will provides you with the opportunity to network with CABE Members, policy makers, experts, academics, and representatives of allied institutes.

It is customary for the CABE Malaysia Chapter to host an annual conference and it has been wonderful to watch it develop over the years extending its reach, and strengthening CABE’s relationships with members, and local academic partners.

Given the gradual growth of global economies after COVID-19 pandemic, the need for international qualification and recognition is particularly pressing. CABE Membership offers hope as well as a practical route for professionals, and practitioners, in the built-environment industry around the world to prove their competence.

Kuala Lumpur is well-positioned for being free and open, and with excellent connectivity to the world. CABE will continue to boost academic relations with other reputed Universities in Malaysia and foster professional networking. In doing so, the Association can nurture the next generation of built-environment professions and help them to unleash their potential.

Malaysia Chapter will continue to leverage on CABE unique strengths in advancing our membership competencies and the development of Malaysia, to better integrate into the overall development of the Asia Pacific Region.

My thanks to the Malaysia Chapter Committee, Chaired by Sr. Isacc Sunder Rajan Packianathan, for organising such a high-powered international event with the Lighthouse Club Kuala Lumpur. I wish you all the best and a healthy and rewarding year ahead.

## WELCOMING ADDRESS

### Director of AIAC



**Datuk Sundra Rajoo**  
**Director of Asian International Arbitration Centre (AIAC)**

On behalf of the Asian International Arbitration Centre (AIAC), we are proud to host the Chartered Association of Building Engineers Malaysia (CABE) International Conference 2023. I would like to congratulate CABE to hosting this annual conference and developed throughout the years.

The theme for this conference is Embedding Sustainability. This is timely as to construction disputes should be reduced to improve sustainability in construction. Construction disputes may lead to undesirable economic and social impacts.

Nevertheless, the contentious issues arise during and after construction projects could lead to dispute proceedings. There are many informative sessions to be presented by eminent speakers in the CABE International Conference 2023. This would, no doubt, enhances the collective ability of the building industry players to understand further on the selected topics: CABE's roles, fire risk management, the enforcement of arbitration awards, ADR methods, natural language processing and construction contracts, concrete façade and innovative concrete materials.

Given the AIAC's mandate to serve the region and as an international organization, AIAC aims to expand its products and services to cater to the growing demands of the global business community and pave its way as an innovative dispute resolution centre.

Lastly, many thanks to the Malaysian Chapter Committee of CABE, chaired by Sr. Isacc Sunder Rajan Packianathan, for organising this event.

### Chairman of CABE Malaysia Chapter



**Isacc Sunder Rajan**  
**Malaysia Chapter Chairman**

It is my distinct pleasure to welcome all conference participants, endorsing and supporting organisations, sponsors and speakers. It is wonderful to see the conference being held in person after the challenging times we have all faced due to the Covid-19 pandemic.

The theme of this conference, "Embedding Sustainability", is crucial in the current global context and it is heartening to see the collaboration and support from various organisations towards this initiative and we are proud to announce that it is organised in collaboration with Lighthouse Club KL. This conference is also supported by Asian International Arbitration Centre (AIAC) & Construction Industry Development Board (CIDB) and endorsed by Asian Institute of Alternate Dispute Resolution (AiADR), Association of Construction Project Managers (ACPM), Institute of Fire Engineers Malaysia (IFEM), American Concrete institute (ACIM), Royal Institute of Surveyors Malaysia (RISM) and MYRBS.

I wish to warmly welcome the President of CABE Joseph Birt and CABE Chief Executive, Dr. Gavin Dunn, in gracing this conference with their presence. As is customary at our conference, the President

of CABE will be presenting the Presidential keynote Address on "Fire Safety" and this will be followed by the CABE Chief Executive Officer who will be speaking on the topic of "CABE Driving Professional Competency". Next a renowned Fire Engineer Tay Hao-giang will speak on an interesting topic of "Building Regulations Compliance".

The afternoon session will feature on the presentations by the Director of AIAC Datuk Sundra Rajoo and popular Speaker Ir. Harban Singh K. S. on Alternative Dispute Resolution (ADR) Practice and with an interesting presentation on the use of AI tools like Chat GPT by tech savvy presenter Ronan Collins. This will be followed by a Panel Discussion session with the Managing Director of Plus Three Consultants, a practicing Claims Consultants. The last session in the afternoon will continue with two eminent speakers who will be speaking on how to make and use Concrete sustainably for the building industry.

I am therefore pleased to welcome and thank all our eminent speakers from across the world who have come here to share their knowledge and vast experience with the participants. Finally, I wish to thank our CABE Malaysian Chapter organising Committee, volunteers, Ms Vivian Sie, GM of CABE Asia Pacific for all their assistance in making this Conference a success.

Thank you and I wish you all a productive and enjoyable conference.



## Embedding Sustainability

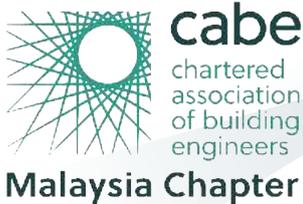
28<sup>th</sup> April 2023

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## ABOUT THE INSTITUTIONS



**The Chartered Association of Building Engineers (CABE)** is a unifying voice within the construction sector.

Formed in 1925, the Association brings members, who work across the life-cycle of the built environment specialising across a wide range of disciplines together. **CABE** shares knowledge, raises standards and develops professionals, enabling them to meet the highest standards we all expect of them.

By supporting our members **CABE** improves collaboration and competency ensuring that buildings meet our essential human needs, today and tomorrow.

**CABE Malaysia Chapter** is here to:

- support and ensure the proper governance and operation in Malaysia Chapter, including the monitoring and reporting of compliance to CABE standards,
- help raise the profile and influence of **CABE** within the region with industry and governments through representation to local government authorities and other professional bodies locally,
- provide front-of-office functions for **CABE Headquarters** to members in Malaysia, including assisting with membership recruitment, upgrades and renewals, facilitating membership and Chartered Engineer interviews locally, liaison with local academic partners, communications to members on behalf of the chapters, disciplinary matters and the promotion of the benevolent fund; and
- provide quality local activities including regular committee meetings, regular CPD sessions to members, conferences, and formal events.



**The Lighthouse Club (LHC)** is a non-political organisation that raises money through social activities, to promote good fellowship amongst its members who work in or are associated with the construction industry and to provide charitable assistance to those in need within the construction industry and to their dependents in qualifying cases.

Its motto is the Latin expression "Alis cum Humanitate", which translates as "Consideration for Others". **LHC** was founded 61 years ago in the UK with clubs in the Asia Pacific Region in Hong Kong, Bangkok, Kuala Lumpur, Macau, Manila, Singapore, Ho Chi Minh City, Cambodia and Australia. The **LHC** has over 8000 members globally.

**The Lighthouse Club Kuala Lumpur (LHCKL)** started in 1994 and has over 120 members today. Besides the social objectives LHC KL's charitable assistance is to provide a fund to support the education and training of young people to enter and progress in the Construction Industry.

## ABOUT THE INSTITUTIONS



**Construction Industry Development Board (CIDB)** was established under the Construction Industry Development Board Act 1994 (Act 520) to regulate, develop and facilitate the construction industry towards achieving global competitiveness.

The Board advises the Federal and the State Governments, as well as other stakeholders on matters affecting or connected with the construction industry.

Its objective is to develop the capacity and capability of the construction industry through the enhancement of quality and productivity by placing great emphasis on professionalism, innovation and knowledge in the endeavour to improve the quality of life.

Its vision is to be an esteemed organisation that delivers construction excellence in Malaysia.

Its mission is to regulate, develop and facilitate the construction industry by inculcating professionalism in delivering quality, productive and sustainable built environment.



Established in 1978, the **Asian International Arbitration Centre ("AIAC")**, formerly known as the Kuala Lumpur Regional Centre for Arbitration ("KLRC"), was the first arbitration centre in Asia to be established under the Asian-African Legal Consultative Organization ("AALCO"). The Centre was first set up to provide institutional support as an independent and neutral venue for arbitration proceedings in Asia. Currently, it stands alongside only five other regional centres located in Egypt, Nigeria, Iran, Kenya and Hong Kong.

Since its inception, the Centre has evolved into a global hub for Alternative Dispute Resolution (ADR). Over the past four decades, it has built itself from the ground up recording 810 cases in 2022; a testament of the **AIAC's** significant growth since 2010 when it administered only 22 cases. The **AIAC** has administered a total of 6218 ADR cases to date. The Centre has entered into more than 50 partnerships with local and international organisations and conducted over 400 capacity building events. The **AIAC** brand now showcases a reinvigorated commitment to provide the best ADR services to its stakeholders, with a comprehensive blueprint in place to deliver on this commitment. Under the leadership of its Director, Datuk Sundra Rajoo, the Centre reverberates with innovation and a renewed sense of drive to enhance the services and products of the **AIAC**, locally and internationally.



# Embedding Sustainability

28<sup>th</sup> April 2023

Kuala Lumpur



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## CONFERENCE PROGRAMME

08:30 - 09:15	<b>Registration and Light Breakfast</b>
09:15 - 09:30	Welcome Address by Chair of CABE Malaysia, President of Lighthouse Club Kuala Lumpur
09:30 - 09:35	Welcome Address by Director of Asian International Arbitration Centre (AIAC)
09:35 - 09:45	Welcome Address and Launching of Conference by CABE President Joseph Birt
09:45 - 10:20	<b>"Fire Safety"</b> Keynote Address by Joseph Birt, President of CABE
10:20 - 10:35	<b>Morning Break</b>
10:35 - 11:05	<b>"CABE Driving Professional Competency In The 21st Century Construction And Property Sector"</b> by Dr. Gavin Dunn, Chief Executive Officer of CABE
11:05 - 11:30	<b>"Fire Risk Management"</b> by Tay Hao-giang, Fire Safety Engineering Consultant, Past International President and current Trustee and Board Member of the Institution of Fire Engineers, UK
11:30 - 12:00	Panel Discussion
12:00 - 13:30	<b>Lunch Break</b>
13:30 - 14:00	<b>"Enforcement Of Arbitration Awards And The New York Convention"</b> by Datuk Sundra Rajoo, Director of Asian International Arbitration Centre (AIAC)
14:00 - 14:30	<b>"Resolving Sustainability Disputes Using Newly Emerging ADR Methods"</b> by Ir. Harbans Singh K.S PEng CEng Arbitrator, Mediator & Adjudicator
14:30 - 15:00	<b>"Natural Language Processing &amp; Construction Contracts – How AI Tools Like chatGPT Are Changing Everything"</b> by Ronan Collins, Head of Digital Engineering of HSS Engineers Bhd
15:00 - 15:30	Panel Discussion
15:30 - 15:45	<b>Tea Break</b>
15:45 - 16:15	<b>"Making Concrete Façade Cool (Artisanal, Bespoke and Green)"</b> by Jay Fung, Managing Director of LWC Alliance Pte Ltd, Singapore
16:15 - 16:45	<b>"Sustainable Construction Using Innovative Concrete Materials"</b> by Associate Professor Dr. Payam Shafigh, Department of Architecture, Universiti Malaya
16:45 - 17:15	Panel Discussion
17:15 - 17:30	<b>Closing Address</b> by Sr. Isacc Sunder Rajan, Chair of CABE Malaysia Chapter

## SPEAKERS PROFILE

### Keynote Address: Fire Safety

#### Joseph Birt President of CABE

Joseph Birt worked for 22 years within Local Authority Building Control in various posts; the latter 12 years as Specialist Support Officer for a Cluster of Councils, which included responsibility for advising on fire safety aspects of the Building Regulations.

He was, for ten years, a Director of the William Keown Charitable Trust, which champions equality in the built environment and celebrates the achievements of people with disabilities. He has been elected twice as Chairman of the Northern Ireland Fire Safety Panel. By Ministerial Appointment he served two terms on the Northern Ireland's Building Regulations Advisory Committee (BRAC) where he contributed to the development of the current Northern Ireland Building Regulations. He has also served two terms on the Department of Communities, Historic Buildings Council.

Joseph is a Chartered Building Engineer, who continues to be active within his local CABE Region; currently Treasurer and past Chairman of the CABE Northern Ireland Region'. He is now the Technical Director of FRSNI Ltd.

### CABE Driving Professional Competency in the 21st Century Construction and Property Sector

#### Dr Gavin Dunn Chief Executive Officer, CABE

Originally trained as an architect, Gavin initially practised in North America with a large construction engineering firm before returning to the UK to specialise in the energy and environmental performance of buildings in 1998.

Gavin advanced this specialism through positions at the Welsh School of Architecture, and Elmhurst Energy, where he helped develop some of Europe's leading building energy certification and labelling systems. In 2013 Gavin was appointed Director of Building Performance at the Building Research Establishment (BRE) where he was responsible for a portfolio of BRE's globally leading services including BREEAM and CEEQUAL the world's foremost environmental assessment methods for the built environment.

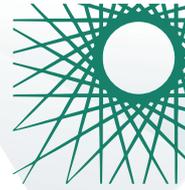
In 2018, Gavin was appointed as Chief Executive of CABE where he works to help enable a more professional construction sector that works to create better, safer and more sustainable buildings that enhance people's lives. Gavin has been a member of the Building Regulations Advisory Committee (BRAC) of the UK Government since 2015 where he currently serves as Chairman of the Future Homes Standard Working Group.



## Embedding Sustainability

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## SPEAKERS PROFILE

### Fire Risk Management

**Tay Hao-giang**

**Fire Safety Engineering Consultant, Past International President and current Trustee and Board Member of the Institution of Fire Engineers, UK**

Engineer Hao-giang Tay is a highly experienced Fire Engineer with over 30 years of experience. He is the principal fire safety engineering consultant at Fire Safety Engineering Sdn Bhd, where his company conducts fire risk assessments and mitigation for corporate clients for business continuity.

He is heavily involved in various professional organizations, serving as the Past International President and current Trustee and Board of Directors member of the Institution of Fire Engineers.

He also chairs the Technical Committee for Fire Properties of Building Materials in the Department of Standards Malaysia National Standard Committee for Fire Safety (NSC13).

He has authored the "Guide to Fire Protection in Malaysia" and has spoken at multiple international fire conferences, including U.S., U.K., India, U.A.E., Australia, China, and more.



### Enforcement Of Arbitration Awards and the New York Convention

**Datuk Sundra Rajoo**

**Director of Asian International Arbitration Centre (AIAC)**

Datuk Sundra Rajoo is the current Director of the Asian International Arbitration Centre (AIAC) and President of the Asian Institute of Alternative Dispute Resolution (AIADR). He is a Certified International ADR Practitioner (AIADR) and Chartered Arbitrator. He played an active role in transforming the AIAC into a sought-after arbitration centre in the Asian region where the AIAC's caseload grew massively from a mere 22 arbitration cases in 2010 to an accumulative total of 2761 arbitration, adjudication and mediation cases in 2019. He was also the past President of the Chartered Institute of Arbitrators (2016) and past Chairman of the Asian Domain Name Dispute Resolution Centre (ADNDRC). He has a number of tertiary degrees in law, architecture and town planning with Hon LLD. He is the Founding President of the Sports Law Association of Malaysia, Founding President of the Society of Construction Law, Malaysia and the Malaysian Society of Adjudicators; and Past President of the Asia Pacific Regional Arbitration Grouping (APRAG).

Datuk Sundra is an Advocate & Solicitor of the High Court of Malaya, Registered Professional Architect, Registered Town Planner, and Fellow of the Royal Institution of Surveyors. He has had over 310 appointments in international and domestic arbitrations across numerous international arbitral institutions. He was an Adjunct Professor, Law Faculty of University of Malaya, past Visiting Professor at the Faculty of Built Environment, University of Technology and the Law Faculty, National University of Malaysia. He was a pioneer member in the Monetary Penalty Review Committee set up under the Malaysian Financial Services Act 2013 for two terms. Datuk Sundra is a former Deputy Chairman of the Adjudicatory Chamber of the Ethics Committee by the FIFA Council.

Datuk Sundra has authored, co-authored and edited Law, Practice and Procedure of Arbitration, 2nd Ed, 2016, Lexis Nexis (LN); Arbitration in Malaysia: A Practical Guide, 2016, (S&M); Construction Law in Malaysia, 2012, S&M; The Malaysian Arbitration Act 2005 (Amended 2011) – An Annotation, 2013, LN; The PAM 2006 Form, 2010, LN; The Arbitration Act 2005 – UNCITRAL Model Law as Applied in Malaysia, 2007, S&M; The Malaysian Standard Form of Building Contract (The PAM 1998 Form), 1999, Malayan Law Journal. In 2015, he was conferred an Honorary Doctorate in Laws from the Leeds Beckett University, UK. He recently published the Law, Practice and Procedure of Arbitration in India (Thomson Reuters) and Standard Form of Building Contracts Compared (LexisNexis).



## SPEAKERS PROFILE



### Resolving Sustainability Disputes Using Newly Emerging ADR Methods

**Ir. Harbans Singh**  
Arbitrator, Mediator & Adjudicator

Ir. Harbans Singh K.S is a Professional Engineer, Chartered Engineer, Arbitrator, Mediator, Adjudicator, Advocate and Solicitor (non-practising).

He commenced his career with the Public Works Department, Malaysia before joining an international German engineering consultancy practice with whom he worked locally and then in Koblenz, Germany as a designer, resident engineer and contract administrator. Later Ir. Harbans served with a local consultancy firm in various professional capacities and is presently domiciled in Malaysia where he is active in construction law and dispute resolution. He is a regular contributor to "The Ingenieur", the Malayan Law Journal, The Law Review and other professional publications.

He is the recipient of a number of awards including Institution of Engineers Malaysia's Tan Sri Haji Yusoff Prize (2001), the Cedric Barclay Award and the Chartered Institute of Arbitrator's Award for the Diploma in International Commercial Arbitration examination (2003).

Ir. Harbans is also the author of a series of four books entitled 'Harbans's Engineering and Construction Contracts Management', co-author of 'The PAM 2006 Standard Form of Building Contract' and 'Construction Law in Malaysia', contributor to 'The Malaysian Standard Precedents and Forms: Engineering & Construction Contracts (Vol.N)' and is a regular speaker at courses, seminars and conferences in Engineering and Management. His company provides advice, consultancy service and training to corporate clients with a holistic approach to sustainable fire safety management for business continuity.



### Natural Language Processing & Construction Contracts – How AI Tools Like chatGPT are Changing Everything

**Ronan Collins**  
Head of Digital Engineering, HSS Engineer Berhad

Ir (Pronounced Engineer) Ronan. Collins is civil and structural engineer, Project Information Manager, BIM specialist, and experienced speaker. When he finds time, he likes to play golf or go sailing with his family.

Ronan is passionate about digital construction and has dedicated his energy in driving innovation and digital transformation in the construction industry. He believes that the business benefits provided by BIM and digital engineering processes can transform the way we design, construct and maintain our infrastructure and buildings.

During his 25 year career, he has implemented digital solutions and services for large scale developments including airports, hotels, railways, universities, exhibition centres, casinos and complex industrial projects all around the world. As a certified BIM Manager, he provides expert advice on how to specify and plan the implementation of digital engineering processes.

He is always willing to share his knowledge, experience and guidance for people working with BIM. He regularly shares ideas on how to get the maximum value from BIM at conferences. Using real world project examples, he provides practical insights on the dos and don'ts of digital transformation for engineering and construction.



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### SPEAKERS PROFILE

#### Making Concrete Façade Cool (Artisanal, Bespoke and Green)

**Jay Fung**

**Managing Director of LWC Alliance Pte Ltd, Singapore**

Jay obtained his B.A. in Architecture and Master of Architecture from UC Berkeley and is the Managing Director of LWC Alliance Pte Ltd, Singapore.

For more than 40 years, Jay has worked with many world-renowned architects delivering iconic concrete façades. He will focus this talk on the making the precast concrete façade for the Hive at the Nanyang Technological University, Singapore designed by Thomas Heatherwick, UK.

Jay enjoys networking and collaborating with industry players for mutual benefits.



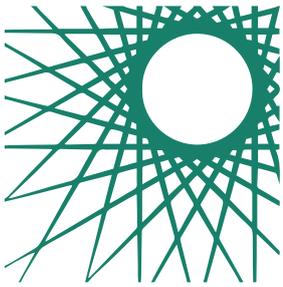
#### Sustainable Construction Using Innovative Concrete Materials

**Associate Professor Dr. Payam Shafigh**

**Department of Architecture, Universiti Malaya**

Payam Shafigh received his doctoral degree (with distinction) in Structural Engineering & Materials from the University of Malaya in 2013. He obtained his MSc in Civil Engineering - Structure (2003) and BSc in Civil Engineering (2000) from the Babol Noshirvani University of Technology. Currently he is Associate Professor in the Department of Architecture, Faculty of Built Environment, University of Malaya. He is a Chartered Fellow of the Chartered Association of Building Engineers (CABE), and a Graduate Member of the Institution of Civil Engineers (ICE). His research interests include Lightweight Aggregate Concrete (LWAC), Concrete Structures, Structural Strengthening and repair, Energy and Building. As site supervisor and structure inspector, he was involved in several public and private construction projects to apply advanced concrete materials in bridges and buildings such as structural LWAC in Terengganu Drawbridge.





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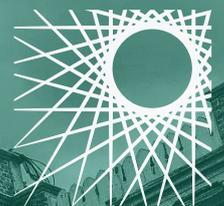
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