

INTRODUCTION.....

ACI-Malaysia Chapter in collaboration with Concrete Society of Malaysia (CSM), Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM) and Institute for Infrastructure Engineering and Sustainable Management (IIESM) is organizing the "International Highest Early Strength Self-Consolidating Concrete Cube Competition (i-HESSCCC)" as an event that has been held for nearly a decade. It has been a yearly event formally known as Performance Controlled Concrete Cube Competition (PCCCC). For three years, the theme of the competition is Highest Early Strength Self-Consolidating Concrete.

OBJECTIVE.....

- Encourage students, researchers and industry players to put on their innovative and technical skills to produce very high strength self-consolidating concrete at early age at optimum cost.
- Create awareness on the versatility of possibility in producing high early strength self-consolidating concrete.
- Serve as an interaction platform among student, NGOs and concrete industry players.

RULES AND REGULATION.....

- [1] A team of participant may register up to maximum of **FOUR** members. Only maximum of **4 groups** from an institution/industry are allowed to register. Similar formulation is prohibited within the groups of the same institution/industry.
- [2] Participants are required to come with their own moulds size **100mm x 100mm x 100mm** and other sizes are not allowed.
- [3] Cement and water will be provided. The participants are required to bring their own aggregates. The participants are also allowed to include additive(s) in concrete mix but its content need to be revealed. However, polymer modified cementitious binder and chloride based accelerators are prohibited.
- [4] The maximum cementitious content plus any supplementary cementitious materials allowed to be used is only up to **450 kg/m³**. Participants are **not allowed** to bring their own Portland cement (all types).
- [5] Participants are required to mix the concrete **MANUALLY** in the Concrete Laboratory at the Faculty of Civil Engineering, UiTM and test the cubes at the day/time specified by the organiser. The flowability must achieve **minimum 500 mm diameter** of flow. Those not achieving the minimum flow will be disqualified for the cube testing. The flowability of the fresh state of the concrete mix will be tested using inverted "slump cone" which the method will be specified by the organiser and not necessarily subject to any of the relevant standard of the flowability test for fresh concrete. The cubes will be tested after **24 hours** of casting.
- [6] Participants are required to prepare **A1 size poster and power point presentation** displaying materials used and mix formulation designed. Judging for Presentation Category will be based on design and content of poster, presentation and communication skill, Q & A discussion and sustainability in materials selection. Participants are required to bring their own tools to mix and demould the specimens.
- [7] Participants are required to **prepare three (3) cubes** but only the best **TWO (2)** cubes will be tested. Air curing method is only allowed. Other means of curing such as autoclaving, high temperature and boiling are not allowed.
- [8] The participants are given **30 minutes** to weigh, mix and cast the specimens. The participants are also required to clean the place, floor and tools within the time given.
- [9] Entries not complying with the rules and regulations of the competition will be disqualified.
- [10] **DECISION BY THE JUDGES ARE FINAL**
*In order to download detailed rules, regulations and judging criteria, please visit our website <http://www.acimalaysia.org/>

PRIZES.....

CATEGORY	PRIZE
1 st Highest Earliest Strength	USD 1000
2 nd Highest Earliest Strength	USD 500
3 rd Highest Earliest Strength	USD 300
Most Flowable Concrete	USD 300
Best Presentation	USD 200
Most Efficient Team	USD 100
Most Consistence Cube	USD 100
Most Green Concrete	USD 100

*Each prize & award comes with Plaque & Certificate
*Other special awards will be announced

ENQUIRIES.....

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ORGANISING COMMITTEE.....

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Assoc. Prof. Dr. Mohd Fadzil Arshad (UiTM/CSM)

DEPUTY CHAIRPERSON

Prof. Dr. Hamidah Mohd Saman (UiTM/ACI Malaysia /CSM)

SECRETARY

Mrs Khairulniza Ahmad Anuar (UiTM/CSM)

FINANCE & SPONSORSHIP

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Mr. Zack Lim (ACI Malaysia/CSM)
Ir. Dr. Anizahyati Alisibramulisi (UiTM)

PUBLICITY, BROCHURE & BOOK OF PROGRAMME

Dr. Shahiron Shahidan (UTHM/CSM)
Mr. Lee Hoong Pin (INTI/CSM/ACI Malaysia)
Mrs. Rosnani Md Sani (UiTM/IIESM)
Mr. Mohd Shafee Harun (UiTM/IIESM)
Mr. Mohamad Zairul Farishah Ismail (UiTM)
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Mr. Hashim Hassan (UiTM)
Mr. Azri Syafiq Kamarozaman (UiTM)
Mr. Muhammad Hazli Shariei (UiTM)
Mr. Muhammad Faiz Ahmad Zait (UiTM)
Mr. Mohd Zarinnizar Afif Wahab (UiTM)
Mr. Mohd Hairul Azhar Ahmad (UiTM)
Mr. Mohd Afiq Mohd Fauzi (UiTM/CSM)
Mrs. Nurshamimie Muhammad Fauzi (UiTM)
Mrs. Nor Hanim Khyyon (UiTM)

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Mrs. Rozaina Ismail (UiTM/IIESM)
Mr. Mohd Zarinnizar Afif Wahab (UiTM)

FOOD & BEVERAGE

Mr. Wan Abdul Halim Nizam (UiTM/IIESM)
Ms. Nurul Aini Salehuddin (UiTM)

REGISTRATION FEE.....

The registration fees are as follows:

MALAYSIAN

(a) Institutional participant RM 400/ team
(b) Industry participant RM 800/ team

INTERNATIONAL

(a) Institutional participant USD 150/ team
(b) Industry participant USD 250/ team

(Accommodation and transportation are not provided)

The registration fee can be made through cash/ cheque/
bank draft/ direct bank transfer to:

A/C Name : American Concrete Institute,
Malaysia Chapter
A/C No : 2910-0020-936
Bank Name : Hong Leong Bank

(Payment using WESTERN UNION are not encourage)

Please send the completed "Registration Form together
with payment slip (not later than 16th March 2018 as
first come first basis) to the following address:

American Concrete Institute-Malaysia Chapter (ACI-
Malaysia Chapter)
c/o Zacklim Flat Floor Specialist Sdn Bhd,
70-1, Jalan PKS 5/30, Petaling Jaya Commercial City
(PJCC),
46150 Petaling Jaya, Selangor Darul Ehsan.

Tel : +603-7782 2996 Fax : +603-7782 1196

*Registration form can be downloaded from ACI-
Malaysia website at <http://www.acimalaysia.org/>

Faculty of Civil Engineering GPS Coordinate:
N 3.071239, E 101.496187



INTERNATIONAL HIGHEST EARLY
STRENGTH SELF-CONSOLIDATING
CONCRETE CUBE COMPETITION

2018

19-20TH APRIL 2018



**FACULTY OF CIVIL ENGINEERING
UNIVERSITI TEKNOLOGI MARA
(UITM), SHAH ALAM,
SELANGOR DARUL EHSAN,
MALAYSIA.**

JOINTLY ORGANISED BY

