

## **The Institution of Engineers, Malaysia 6<sup>th</sup> Research Paper Contest**

### **The Institution of Engineers Malaysia**

Bangunan Ingenieur, Lots 60 & 62, Jalan 52/4,  
P.O. Box 223, Jalan Sultan, 46720 Petaling Jaya  
Tel: 03-79684001/4002 Fax: 03-79577678  
E-mail: [sec@iem.org.my](mailto:sec@iem.org.my) Homepage: <http://www.iem.org.my>

### **Organizer**

Chemical Engineering Technical Division (CETD), The Institution of Engineers, Malaysia (IEM)

### **Objective**

The contest is organized in conjunction with the 19<sup>th</sup> Asian Pacific Confederation of Chemical Engineering Congress (APCChE) to be held on 16 – 19 August 2022 in Kuala Lumpur, Malaysia. Chemical engineers from throughout the Asia Pacific region will gather to share their insights and innovations in this event.

### **Eligibility**

1. The contestant must be active chemical/biochemical/petrochemical/process engineering **undergraduate** and **postgraduate** in public or private universities in Malaysia.
2. The contestant must be members (i.e. students or graduate members) of IEM. **The contestant can complete and submit an application for membership in IEM together with registration for the contest.**
3. Every contestant is only allowed to submit ONE paper for the content. The main author (i.e. contestant) must be a MALAYSIAN.
4. All entries must obtain recommendation from main supervisor by filing up the entry form.

### **Instruction for manuscript preparation**

1. A maximum 20 pages manuscript is to be submitted. Pages exceeding 20 pages will not be assessed including tables and figures.
2. The format of submission need to follow <https://iemjournal.com.my/index.php/iem/about/submissions>

## Manuscript submission

1. For **Undergraduate participant**, please submit to IEM Online Journal Submission System <https://iemjournal.com.my/index.php/iem/about/submissions>. Please indicate in the *cover letter* that the submission is for IEM CETD Research Paper Contest 2021.
2. For **Postgraduate participant**, the full manuscript is to be submitted to [amira@iem.org.my](mailto:amira@iem.org.my) and copy to [iemcetdcontest2021@gmail.com](mailto:iemcetdcontest2021@gmail.com) via email attachment. Only .pdf formats are acceptable.

## Presentation

Three (3) finalists for postgraduate category and Five (5) finalists for undergraduate category will be called for virtual oral presentation to determine the winners for prizes.

## Important dates to remember

September 2021 : Announcement for Contest (flyers to be sent to all universities)  
~~25 October 2021~~ : Full paper submission for contest by 12.00 pm sharp  
~~24 December 2021~~  
**25 March 2022**  
~~25 November 2021~~ : Notification of finalists for virtual oral presentation  
~~10 January 2021~~  
**30 April 2022**  
  
~~15 December 2021~~ : Final virtual oral presentation for postgraduate and  
~~22 January 2022~~ undergraduate categories  
**14 May 2022**  
 (Tentative)  
 23 – 27 August : APCChE 2022 Congress  
 2022

## Judging team

- Manuscript: Academic members appointed by CETD, IEM
- Presentation: Virtual presentation via Zoom. Winners will be selected by IEM CETD panel of judges.

## Contest prize

### Postgraduate

Prize	Postgraduate
1 <sup>st</sup> placing	One free physical presentation in APCChE 2022 + Certificate
2 <sup>nd</sup> placing	One free physical presentation in APCChE 2022 + Certificate
3 <sup>rd</sup> placing	One free physical presentation in APCChE 2022 + Certificate

The Winners of the postgraduate category will be given a free opportunity to participate and present his/her paper in the APCChE 2022, while still subjected to the acceptance of paper presentation by the conference organizer. The winner is further required to provide a report to IEM, within 14 days upon return, for publication in the IEM monthly publication *Jurutera*. The Winners of Postgraduate Category will be invited to submit paper for proceeding to be published international indexed journal. The paper will still be subjected to ordinary reviewing process.

### **Undergraduate**

Prize	Undergraduate
1 <sup>st</sup> placing	One free physical audience participation in APCChE 2022 + Certificate
2 <sup>nd</sup> placing	One free physical audience participation in APCChE 2022 + Certificate
3 <sup>rd</sup> placing	One free physical audience participation in APCChE 2022 + Certificate
Consolation Prize	One free physical virtual audience participation in APCChE 2022 + Certificate
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All finalist papers will be published in the **IEM Journal December 2021 and June 2022 issues**. However, the final paper publication still subjected to the corrections after the reviewing process.

The organizer reserves the right to substitute any one of the prize(s) with items of equivalent value at any time without prior notice

### **Registration fee**

Each paper submission is accompanied with a registration fee of RM50 as secretariat charges (SST not included). Please make payable to “**The Institution of Engineers Malaysia**”. Please note that the fee only entitles for this IEM Research Paper Contest, and does not include the registration fees for IEM membership. For more information about IEM membership, please visit [www.myiem.org.my](http://www.myiem.org.my)

### **General conditions**

1. IEM reserves the right to select winner that meet with an appropriate level of quality.
2. The Organizer shall not be responsible nor shall accept any liabilities of whatsoever nature and however arising or suffered by the participants and/or third parties resulting directly or indirectly from the Contest and/or the Prizes. Winners shall assume full liability and responsibility in case of any liability, mishap, injury, damage, claim or accidents (including death) resulting from their participation in this Contest, redemption and/or utilization of the prizes.

3. By participating in this Contest, participants agree to be bound by these Terms and Conditions, and all decisions by the organizer are final and binding. The Organizer reserves the right to change, amend, add or delete any of these Terms and Conditions without prior notice at any time and participants shall be bound by such changes.
4. The Organizer decision on all matters relating to this contest shall be final, conclusive and binding. The organizer is not obligated to give any reasons on any matter in the contest.

## **Other information**

### **Oral Presentation**

1. Fifteen (15) minutes shall be allotted for the virtual oral presentation via Zoom platform and five (5) minutes for questions from the audience.
2. The paper contest chairman shall arrange a timing system, with the following characteristics:
  - a) A Signal will be given at the beginning of the oral presentation.
  - b) A warning signal will be given at the end of thirteen (13) minutes.
  - c) A stop signal will be given at the end of fifteen (15) minutes.
  - d) The contestant should cease talking when the stop signal is given. The contest judges will assess penalties for running overtime.
  - e) The contestant will be stopped by the judges at the end of twenty (20) minutes if he continues past the stop signal.
  - f) In addition to the fifteen and five minute periods, the judges shall be given up to ten (10) minutes to complete their evaluations between presentations.
3. Individuals asking questions during the discussion period shall state their name and affiliation. If the audience does not present any questions, the judges should do so. Questions will be stopped at the end of five (5) minutes.
4. Demonstration or display apparatus may not be employed as a part of the contest presentation. Visual aids such as slides, placards, charts, view graph pictures and motion picture films may be used.

### **Judging**

Papers will be evaluated and judged on the basis of twenty criteria. In the nutshell, the judging criteria are related to the student's written and verbal skills, emphasizing that the paper contests primary function is to improve an engineering student's communication abilities.

### **Judging Criteria**

#### **Written Presentation Evaluation**

1. Concise and informative abstract
2. Adequacy of introduction
3. Logical development and analytical treatment in the body
4. Adequacy of conclusion

5. Compliance with paper contest guidelines on format.
6. Clarity and direction in exposition
7. Grammar, spelling, style and choice of words
8. Originality of ideas, experimental procedures, processes, results, or conclusions due primarily to this author.
9. Originality of analysis, interpretation, and restatement of inference based upon the work of others.
10. Quality and level of technical, social, or management content.
11. Factual and technical accuracy.

**Oral Presentation Evaluation**

1. Organization--has introduction body and conclusions with transitions between each.
2. Logical development
3. Poise, eye contact, and platform manners
4. Grammar, fluency, and choice of words.
5. Clarity and directness in exposition.
6. Use of graphic aids.
7. Apparent technical and factual accuracy and grasp of the subject.
8. Use of examples and analogies.
9. Discussion--judges should be prepared to stimulate discussion