



The Institution of Engineers, Malaysia Research Paper Contest

The Institution of Engineers Malaysia
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Organizer

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

Objective

The contest is organized in conjunction with the 16th Asian Pacific Confederation of Chemical Engineering Congress (APCCChE) to be held on 27 September – 1 October 2015 in Melbourne Australia in 2015. Chemical engineers from throughout the Asia Pacific region will gather to share their insights and innovations in this event.

Congress theme

“Chemical Engineering in the Asia-Pacific Century- Growth and Innovations”, will focus the emerging opportunities and challenges for the chemical engineering profession and the process industries within the region. For more information, please visit <http://www.apcche2015.org>

Eligibility

1. The contestant must be an active chemical/biochemical/petrochemical/process engineering final year undergraduate or 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 eight (8) pages manuscript is to be submitted. Pages exceeding 8 pages will not be assessed.
2. Manuscript is to be printed on an A4 size paper, with printed area of about 17 × 25 cm. Use single column and single spacing for the format.
3. The complete paper shall include the following subsections: Abstract (maximum 150 words), Authors and Affiliation, Keywords (up to 5 keywords)

are allowed), Introduction, Methodology, Results and Discussion, Conclusion, References.

4. Font: Times New Roman, font size: 12. Font size for tables and figures may be excluded from this limitation.
5. The paper may be co-authored by several contributors. However, only first author is allowed to take part in the contest.
6. Novelty of the research work should be made clear in the submitted manuscript.
7. References should be numbered consecutively and should follow the form shown below:

Reference to a journal publication:

Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. *J. Sci. Commun.* 163, 51–59.

Reference to a book:

Strunk Jr., W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.

Manuscript submission

The full manuscript is to be submitted to sitiaisyah@iem.org.my and copy to iemcetdcontest2015@gmail.com via email attachment. Only .doc and .docx formats are acceptable.

Presentation

Eight (8) finalists for respective undergraduate and postgraduate category will be called for presentation at IEM.

Important dates to remember

- | | | |
|--------------------------|---|------------------------------------------------------------------|
| January 2015 | : | Announcement for Contest (flyers to be sent to all universities) |
| 28 February 2015 | : | APCChE 2015 Congress abstract submission deadline |
| 31 March 2015 | : | Full paper submission for contest by 12.00 pm sharp |

Extension

30th April 2015

- | | | |
|---------------------|---|-----------------------------------------------------|
| May 2015 | : | Final presentation (venue and date to be announced) |
|---------------------|---|-----------------------------------------------------|

Extension

June 2015

- | | | |
|-------------------------------|---|---------------------------------------------------------|
| 2 May 2015 | : | Open for registration of APPChE 2015 Congress |
| 31 July 2015 | : | Closing of early bird registration APPChE 2015 Congress |
| 15 July 2015 | : | Registration closing for APPChE 2015 Congress |
| 27 September – 1 October 2015 | : | APCChE 2015 Congress |

Judging team

- Manuscript: Academic members of CETD, IEM
- Presentation: Open audience presentation session Winners will be selected by IEM CETD panel of judges.

Contest prize

Prize	Postgraduate	Undergraduate
1 st placing	RM 1,000 + one free participation APCCChE 2015	RM 500
2 nd placing	RM 800	RM 300
3 rd placing	RM 500	RM 200

The 1st placing winner of the postgraduate category will be given a free opportunity to participate and present his/her paper in the APCCChE 2015, while still subjected to the acceptance of paper presentation by the Congress organizer. The winner is further required to provide a trip report to IEM, within 14 days upon return, for publication in the IEM monthly publication *Jurutera*.

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 (GST 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 APCCChE congress and IEM membership. For more information about IEM membership, please visit www.myiem.org.my

General conditions

1. IEM reserves the right to select winner that meet with an appropriate level of quality suitable for representation at the APCCChE Congress.
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 oral presentation 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