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ADVANCING
CHEMICAL
ENGINEERING
WORLDWIDE



2020

Regional Chemical Engineering Undergraduate Conference

INVITATION BOOKLET



8-9 SEPTEMBER 2020

ORGANIZER

DEPARTMENT OF CHEMICAL ENGINEERING,

FACULTY OF ENGINEERING, UNIVERSITY OF MALAYA



REGIONAL CHEMICAL ENGINEERING
UNDERGRADUATE CONFERENCE

ABOUT

RCEUC 2020

The Regional Chemical Engineering Undergraduate Conference (RCEUC) is an annual student-run conference organized under the auspices of the Department of Chemical Engineering, University of Malaya and supported by the Institution of Chemical Engineers (IChemE). With the tagline of “connecting industry with academia”, we aim to be a primer to prepare fresh graduates for the industry by means of keynote speeches, forums and relevant workshops. We aim to connect students with the industry in terms of jobs and internships. This year, RCEUC incorporates two competitions: **Online Presentation and Paper Writing** segments. Participants will be given the chance to present a project of their choice (Final Year Project or otherwise) in front of a panel of judges from both the industry and academia.

We aim to exchange of ideas among the undergraduates to advance research and development initiatives in various fields of chemical engineering, nationwide and even internationally. Previous iterations of RCEUC recorded a participation of over 300, with 20+ participating institutions from 5+ countries.

ATTRACTIVE PROGRAMMES OFFERED

This year, RCEUC 2020 will come back as an **online conference**. A new programme will be proudly introduced which is **Paper Writing Competition**. The Oral Presentation will be carried out as **Online Presentation** while the Poster presentation has to make it a stop this year. The delegates from different parts of the world will seize this golden opportunity to witness and share their ideas in these programmes without boundaries. Five categories we offered are **Advanced Materials, Energy Security, Food & Biotechnology, Process Control & Safety and Water Security & Environment**.

RCEUC also provides **online Plenary Forums and Keynote Speeches** by professionals and experts from different fields as a platform to broadcast their valuable ideas from their research.

EXPECTED

PARTICIPATING COUNTRIES



BRUNEI



AUSTRALIA



INDIA



PHILIPPINES



LAOS



INDONESIA



CHINA



THAILAND



JAPAN



CAMBODIA



SINGAPORE



KOREA



HONG KONG



VIETNAM



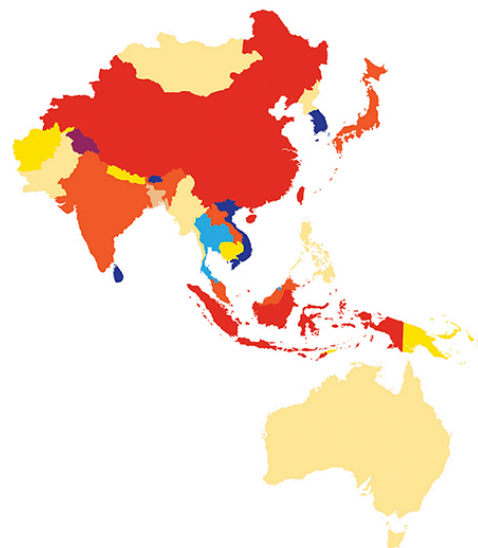
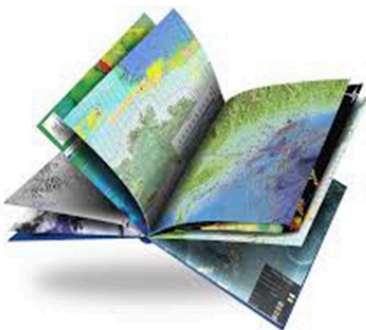
MYANMAR



NEW
ZEALAND



MALAYSIA



ELIGIBILITY

- a) Participation is open to all undergraduate students who are enrolled in a Chemical Engineering program (or equivalent) in any institution (public or private) in Malaysia or abroad. Participants may be undergraduate students of any year. Participation may be as an individual or a group. However, group members must be involved in the same project and/or in paper writing work.
- b) This includes, but is not limited to, the following fields:
- i) **Chemistry, Analytical or Industrial Chemistry**
 - ii) **Applied Chemistry, Chemical Technology or Chemical Engineering Technology**
 - iii) **Biology, Applied Biology, Biotechnology or Biochemistry**
 - iv) **Biochemical, Biomolecular or Bioprocess Engineering**
 - v) **Environmental, Civil Engineering or Science**
 - vi) **Oil, Gas, Petroleum, Petrochemical Engineering or Science**
 - vii) **Energy, Renewable Energy, Power Engineering or Science**
 - viii) **Water, Wastewater Engineering, Science or Technology**

REGISTRATION

Registration can be made via online **ONLY**. To register, please click [here](#).

Registration for the Regional Chemical Engineering Undergraduate Conference (RCEUC) 2020 opens on the **21 January 2020**.

Registration is acceptable via google form until **10 April 2020 (early bird registration)** or **10 June 2020 (normal registration)**.

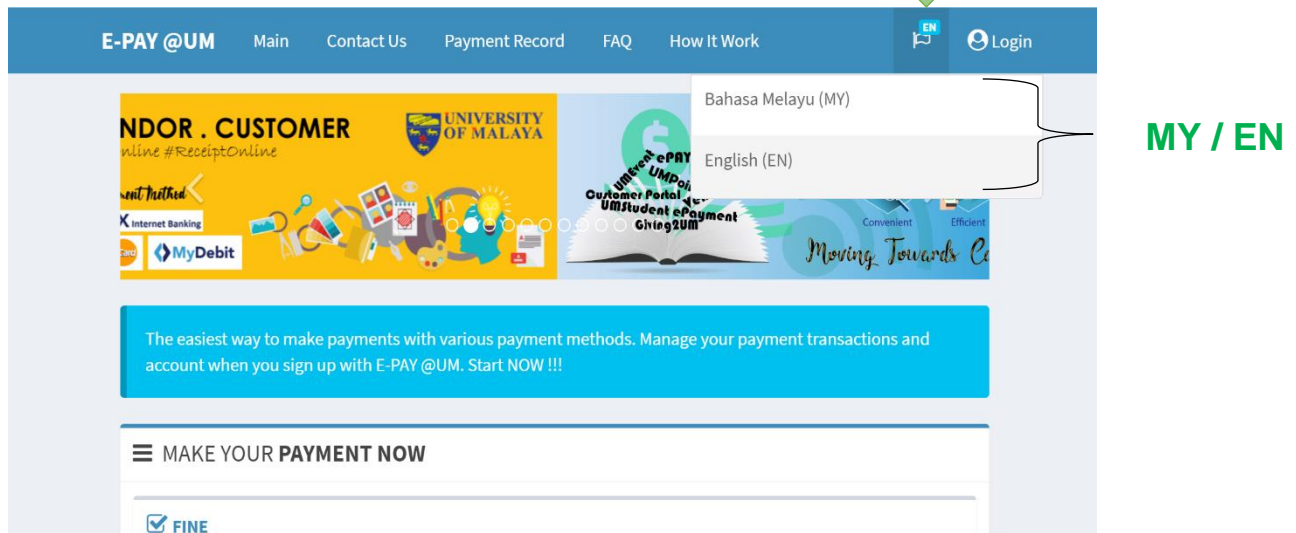
REGISTRATION PACKAGES

	Participant	Group package (5 participant)
	Offered to undergraduate students who are participating in the Online Presentation or Paper Writing	Offered to a group of undergraduate students with FIVE participation in Online Presentation or Paper Writing
Early Bird	RM 200 USD 50**	RM 800 USD 200**
Normal	RM 250 USD 60**	RM 1000 USD 250**

**For participating universities outside Malaysia.

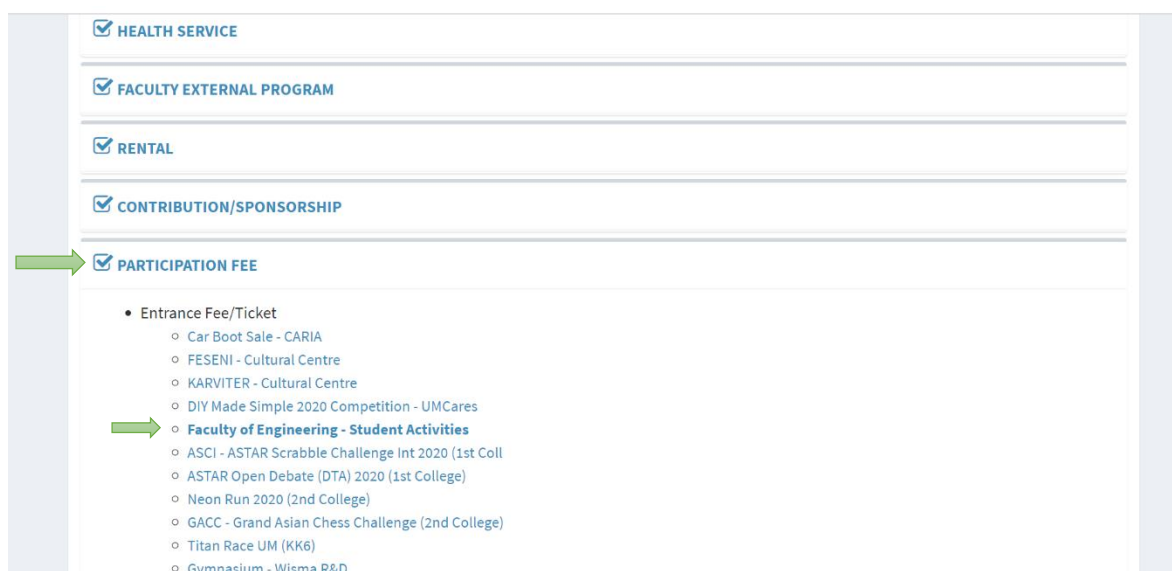
PAYMENT METHOD

Step 1: Choose Your Language



You may choose **English** or **Malay** on <https://epay.um.edu.my/>.

Step 2: Press Participation Fee



Click on **Faculty of Engineering – Student Activities**

Step 3: Fill in Payment Information

Make sure all the details are accurate and correct !

Payment Information

(*) Indicate field required

Pay for **Faculty of Engineering - Student Activities**

Name *

MyCard No./Passport *

Faculty/Centre/College/Dept./Others *

Total payment *

Description *

Note: Maximum 50 Character

Payment For Third Party ? ☐ Yes ☒ No

- Under **Faculty/Centre/College/Dept./Others**, Choose **Dept. Chemical Engineering (RCEUC) – Student Activity**
- Please fill in the **Description** as follows:
 - Online Presentation OR
 - Paper Writing Competition OR
 - Group Registration [Eg: 2 Online Presentation, 1 Paper Writing Competition]

Step 4: Finish the Payment Details

- **Must keep the receipt for reference**
- Receipt must send back to delegation email contact.rceuc@gmail.com as the proof of payment

ONLINE PRESENTATION GUIDELINES

DESCRIPTION

- a) Participants will present a student project in any discipline in chemical engineering in the form of an **online presentation** directly to judges for evaluation.
- b) This competition is separated into 5 categories:
 - **Advanced Materials**
 - **Energy Security**
 - **Water Security and Environment**
 - **Food and Biotechnology**
 - **Process Control and Safety**
- c) Outline and content are encouraged to focus on:
 - Title
 - Name of presenter
 - Supervisor name (optional)
 - Introduction
 - Objective
 - Research Methodology
 - Results and Discussion
 - Conclusion
 - Acknowledgement
 - Reference
- d) Participants are welcomed to include any related information if there is a great potential to share.

ELIGIBILITY

- a) Participation is open to all undergraduate students who are enrolled in any degree related to Chemical Engineering discipline (or equivalent) in any institution (public or private) in Malaysia or abroad. Participation is not only restricted to final year students.
- b) This also includes (but is not limited) students in the fields below:
 - **Chemistry, Analytical or Industrial Chemistry**
 - **Applied Chemistry, Chemical Technology or Chemical Engineering Technology**
 - **Biology, Applied Biology, Biotechnology or Biochemistry**
 - **Biochemical, Biomolecular or Bioprocess Engineering**
 - **Environmental, Civil Engineering or Science**
 - **Oil, Gas, Petroleum, Petrochemical Engineering or Science**
 - **Energy, Renewable Energy, Power Engineering or Science**
 - **Water, Wastewater Engineering, Science or Technology**
- c) Any other Science, Technology, Engineering and Mathematics (STEM) undergraduates with a project related to a chemical engineering issue or topic are welcome to participate as well.

RULES & REGULATIONS

- a) Each institution is entitled to send **ANY NUMBER** of students for each category of this competition.
- b) **No group presentation allowed.** Only one person per presentation.
- c) Demonstration of physical product/specimens and/or printed documents **are not allowed.**
- d) **Participants should ensure they have a device with a stable internet connection, webcam and functioning microphone to ensure the quality of presentation. The Organizing Committee shall not be held responsible for any technical issues that might affect judges' evaluation.**
- e) The competition will be carried out in two rounds: **First Round** and **Second Round.**

- f) In the first round, a time limit of **10 MINUTES** presentation + **5 MINUTES** for **Q&A session with the judges** is allocated. Please take note **that 5 MINUTES is the time for participants to answer the questions**, not including the time for judges to ask questions. Exceeding the time limit may lead to mark deductions: **1 mark for 30 seconds exceeded, 2 marks for 1 minute exceeded and so on.**
- g) In the first round, presentations are carried out according to your registered category. **ONE best presenter** from each category will be selected to enter the second round.
- h) In the second round, a time limit of **10 MINUTES** presentation + **5 MINUTES** allocated for **Q&A session with the judges**. Please take note that **5 MINUTES is the time for participants** to answer the questions, not including the time for judges to ask questions. Exceeding the time limit may lead to mark deductions: **1 mark for 30 seconds exceeded, 2 marks for 1 minute exceeded and so on.**
- i) A maximum of **3 MINUTES** is given to each participant for technical set up.
- j) **The Organizing Committee shall have the discretion to handle any technical issue on a case by case basis.**
- k) All the presenters are required to wear formal attire during the presentation.

PRESENTATION GUIDELINES

- a) Drawing session will be held before the first day of competitions with online briefing sessions to confirm the number of participants. (7th September 2020). Participants **MUST ATTEND** this online session, or your participation will be **DISQUALIFIED**. Participants will be guided on software installation on request.
- b) The presentation mode will be online through webcam. Participants are encouraged to use your own devices throughout the competition to ensure good audio and video quality.
- c) Participants are responsible to ensure that your device meets the system requirements for running an online live presentation.
- d) For each category, an online meeting room will be scheduled with the participants and panel of judges. **Participants must enter the online room 10 MINUTES before the competition starts or you shall be DISQUALIFIED.**
- e) Participants will be asked to share their screen and control the flow of the presentation themselves. Participants are encouraged to use creative ways of presenting. A copy of the slides must be sent to the Organizing Committee at least one day before the competition as a backup copy.
- f) Participants are encouraged to keep your visuals **CLEAR** and **SIMPLE**. Simple graphs, charts and diagrams are much more meaningful. Minimize use of words for text and title frames.
- g) Graphics projected on the screen are meant to support your spoken words. They should help clarify ideas, emphasize key points, show relationships and provide visual information so that your audience understand your message.

FORMAT

- a) Language for poster and presentation: **Formal English.**
- b) All presentation slides are encouraged to prepare in **Microsoft Office Power Point slides** (saved in .ppt or .pptx format) with cover page. The slides **must be numbered.**
- c) All references should be cited as a footnote in the presentation slides.

JUDGE EVALUATION

- a) The evaluation and judging process will be based on consensus.
- b) Jury's decisions are final. All appeals will not be entertained.**
- c) Participants will be judged based on their presentation, abstract as well as the content of their research during the competition.
- d) A copy of the marking criteria will be sent to the participants once registration is confirmed.**

PRIZES

- a) Three best online presentations will be selected as the winners.
- b) The rewards for the winners are:
 - **Champion**
 - **First Runner Up**
 - **Second Runner Up**
- c) All participants will be awarded an e-certificate of participation.
- d) The Organizing Committee reserves the right to amend the name and the amount of prizes as needed.

SUBMISSION GUIDELINES

- a) A copy of the **presentation slides** must be sent via email: contact.rceuc@gmail.com with the subject **RCEUC 2020 | Presentation Slides (or Abstract Form) | University Name | Category**
- b) Due date of **abstract submission** is **20th July 2020**.
- c) Due date of submission for presentation slide: **20th August 2020 (Mandatory first submission)**. **Late submission may lead to a mark penalty.**

RESULTS

The winners of this competition will be announced during the RCEUC 2020 Closing Ceremony on **9th September 2020**.

*These guidelines need to be followed closely. The host has all the rights to eliminate/annul/disqualify any party that violates the guidelines as stated above. Such actions may be taken by the host without any prior notice to the respective parties.

PAPER WRITING GUIDELINES

DESCRIPTION

- a) This competition is an **open category-competition** in which participants are welcomed to submit a technical research paper related to the fields mentioned in the **ELIGIBILITY** section. No review papers or short communications.
- b) Outline and content are encouraged to focus on:
 - i) Title
 - ii) Introduction
 - iii) Materials and Method/Methodology /Theory
 - iv) Results and Discussion
 - v) Conclusion
 - vi) Acknowledgement
 - vii) Reference
- c) Participants are welcomed to include any related information if there is a great potential to share.

ELIGIBILITY

- a) Participation is open to all undergraduate students who are currently engaged in a project related to the Chemical Engineering discipline or equivalent, enrolled in any institution (public or private) in Malaysia or abroad. Participants may be undergraduate students of any year. Participation may be as an individual or a group. However, group members must be involved in the same project and/or in paper writing work.
- b) This includes, but is not limited to, the following fields:
 - i) **Chemistry, Analytical or Industrial Chemistry**
 - ii) **Applied Chemistry, Chemical Technology or Chemical Engineering Technology**
 - iii) **Biology, Applied Biology, Biotechnology or Biochemistry**
 - iv) **Biochemical, Biomolecular or Bioprocess Engineering**
 - v) **Environmental, Civil Engineering or Science**

- vi) **Oil, Gas, Petroleum, Petrochemical Engineering or Science**
- vii) **Energy, Renewable Energy, Power Engineering or Science**
- viii) **Water, Wastewater Engineering, Science or Technology**

c) Any other Science, Technology, Engineering and Mathematics (STEM) undergraduates with a project related to a chemical engineering issue or topic are welcome to participate as well.

d) Students who have registered for the participation of **RCEUC ONLINE COMPETITION 2020** may participate as well.

RULES & REGULATIONS

- a) Each university/institution is entitled to send **ANY NUMBER** of students for each category of this competition.
- b) **Either individual or group participation with one corresponding author per paper is allowed. Remember to include your supervisor's name.**
- c) Submitted paper must be an original work. A Turnitin or equivalent software check, one-page summary is required to be submitted. A maximum **Similarity Rating of 20%** is allowed. Papers with higher Similarity Rating will be **DISQUALIFIED**.
- d) Entry will automatically **DISQUALIFIED** once it exceeds the submission deadline.
- e) Paper pages must be minimum 6 pages and maximum 8 pages.

PAPER GUIDELINES

- a) The cover page must include:
 - i) **Name and IC number of the participant**
 - ii) **Name of the University/Institute**
 - iii) **Specific paper title**
 - iv) **Contact number and email address of the participant**

b) Paper must consist of:

- i. **Specific Paper Title**
- ii. **Abstract**
- iii. **Keywords**
- iv. **Introduction**
- v. **Materials and Methods/Theory**
- vi. **Results and Discussion**
- vii. **Conclusion**
- viii. **References**

FORMAT

- a) Language for research paper: **Formal English**.
- b) Length: **6 to 8 pages excluding the references**.
- c) Abstract: A summary of **not more than 300 WORDS** of the article should be included before the paper.
- d) Title: Specific paper title should be included in cover page of the participating entry.
- e) All paper must be prepared in **Microsoft Office Word** with below format:
 - Font type: Times New Roman
 - Font size: 12
 - Spacing: 1.15
 - Page Layout: Standard A4 Size (21.0 x 29.7 cm)
 - Margin: (Left to Right: 2.54 cm) and (Top to Bottom: 2.54 cm) ▪Title (bold 14 pt) and headings (bold 12 pt) of the paper should be typed in capital case.
 - Title should be centre on the page while headings should be aligned to the left of the page.
 - The text must be justified, and paragraphs are separated by 10 pt with indentation of 12 mm from left.
- f) References should appear in references list at the end of essay and should follow **APA** referencing style format.

- g) Page numbers should be included, in bold and centred and placed at bottom of each page. **EXCLUDE** for cover page.ng entry.
- h) All paper should have a reference list with complete citations.

TEMPLATE

- a) Please visit the link below for the template of the paper:

<https://bit.ly/2RsggKM>

JUDGE EVALUATION

- a) The panel of judges consists of subject matter experts, including academicians and industry professionals who are qualified in the topics to be judged.
- b) Evaluation and judging process will be based on consensus.
- c) **Jury's decisions are final and not subjected to appeal.**
- d) Participants will be judged based on their format, languages as well as the content of their research paper during the competition.
- e) **A copy of the marking criteria will be sent to the participants once registration is confirmed.**

PRIZES

- a) Three best papers will be selected as the winners.
- b) The rewards for the winners are:
 - **Champion**
 - **First Runner Up**
 - **Second Runner Up**
- c) All participants will be awarded an e-certificate of participation.

SUBMISSION GUIDELINES

- a) A soft copy of the paper must be converted into **PDF and Microsoft Word** format and sent via email to:
contact.rceuc@gmail.com with the subject
RCEUC | Paper Writing | University Name | Category.
- b) Due date of submission of **abstract** is **20th July 2020.**
- c) Due date of submission of **full paper** is **5th August 2020.**
- d) Late submissions will be **DISQUALIFIED.**
- e) Shall the participant did not receive any notification from the organisers within 3 working days, the participant is requested to contact the organisers for further information and assistance.

RESULTS

The winners of this competition will be announced during the RCEUC 2020 closing ceremony on **9th September 2020.**

CONTACT INFORMATION



Regional Chemical Engineering
Undergraduate Conference - RCEUC



rceuc2020



contact.rceuc@gmail.com



<https://engine.um.edu.my/conference/rceuc>



<https://www.linkedin.com/company/rceuc>