

ORGANIZED BY



IN COLLABORATION WITH



SUPPORTED BY



REGIONAL CHEMICAL ENGINEERING UNDERGRADUATE CONGRESS 2019

A decorative graphic consisting of a circular ring with a blue and green gradient, surrounded by numerous small, colorful dots in shades of blue, green, and yellow. The background features wavy green and yellow shapes.

INVITATION BOOKLET



8th - 9th July 2019



**FACULTY OF ENGINEERING, UNIVERSITY OF MALAYA,
KUALA LUMPUR, MALAYSIA**

ORGANIZER

**DEPARTMENT OF CHEMICAL ENGINEERING,
FACULTY OF ENGINEERING, UNIVERSITY OF MALAYA**



REGIONAL CHEMICAL ENGINEERING
UNDERGRADUATE CONGRESS

ABOUT RCEUC 2019

The Regional Chemical Engineering Undergraduate Congress 2019 (RCEUC 2019) is an event organized by the Department of Chemical Engineering, University of Malaya and in collaboration with UM Chemical Engineering Undergraduate Club (CEUC), With the theme of *“Embracing Industrial Revolution 4.0: Emerging Sustainable Technologies in Chemical Engineering”*, this congress will be the platform for chemical engineering undergraduates to present their final year projects (FYP) at international level. In addition, this event will give five opportunities to the participants, which are opportunity to present the research in an international avenue, opportunity to meet people from various country, opportunity to approach experts in various field, opportunity for skills development and opportunity to have fun. This congress also aims to acquaint undergraduates with the latest cutting-edge development, latest research and innovation in various aspects of chemical engineering and related disciplines. It acts as a catalyst to speed up the exchange of ideas among undergraduates to advance research and development initiatives in various field of chemical engineering, nationwide and even internationally. As a result, this will improve participant’s competitiveness and marketability in the future. After RCEUC 2017 and RCEUC 2018, RCEUC 2019 is here to attract worldwide attention.

ATTRACTIVE PROGRAMMES OFFERED

In 2019, two competitions, which are the oral presentations and poster presentation will become the climax of our congress. Both of the competitions will advance the witness and sharing of ideas from different part of world among delegates. Five categories that we offered are: *Advanced Materials Engineering, Energy Security, Food & Biotechnology, Process Control & Safety* and *Water Security & Environment*.

RCEUC also provides *plenary forums & keynote speeches* by professionals and field experts to broadcast productive exchange of ideas around advance research and development to emerge the sustainable technologies in various fields of chemical engineering, nationwide and internationally.

Serving as a medium by building up and nurturing new relationships, all the attendees may interact with one another throughout the timeline of our congress and during the highly anticipated *Gala Dinner*.

EVENT TIMELINE

8th July

0715-0800	REGISTRATION & BREAKFAST
0800-0930	OPENING CEREMONY
0930-1200	KEYNOTE SPEECHES
1245-1345	LUNCH
1345-1415	BRIEFING ON COMPETITION RULES
1415-1700	ORAL / POSTER PRESENTATION
1930-2230	INTERACTION NIGHT

9th July

0730-0830	BREAKFAST
0830-0900	REGISTRATION
0900-1130	ORAL / POSTER PRESENTATION FINAL
1130-1300	PLENARY FORUM
1300-1400	CLOSING CEREMONY & AWARD PRESENTATION
1400-1500	FAREWELL & CHECKOUT

**subject to change*

EXPECTED PARTICIPATING COUNTRIES



BRUNEI



THAILAND



INDONESIA



PHILIPPINES



LAOS



SINGAPORE



INDIA



KOREA



VIETNAM



JAPAN



CHINA



NEW ZEALAND



MYANMAR



HONG KONG



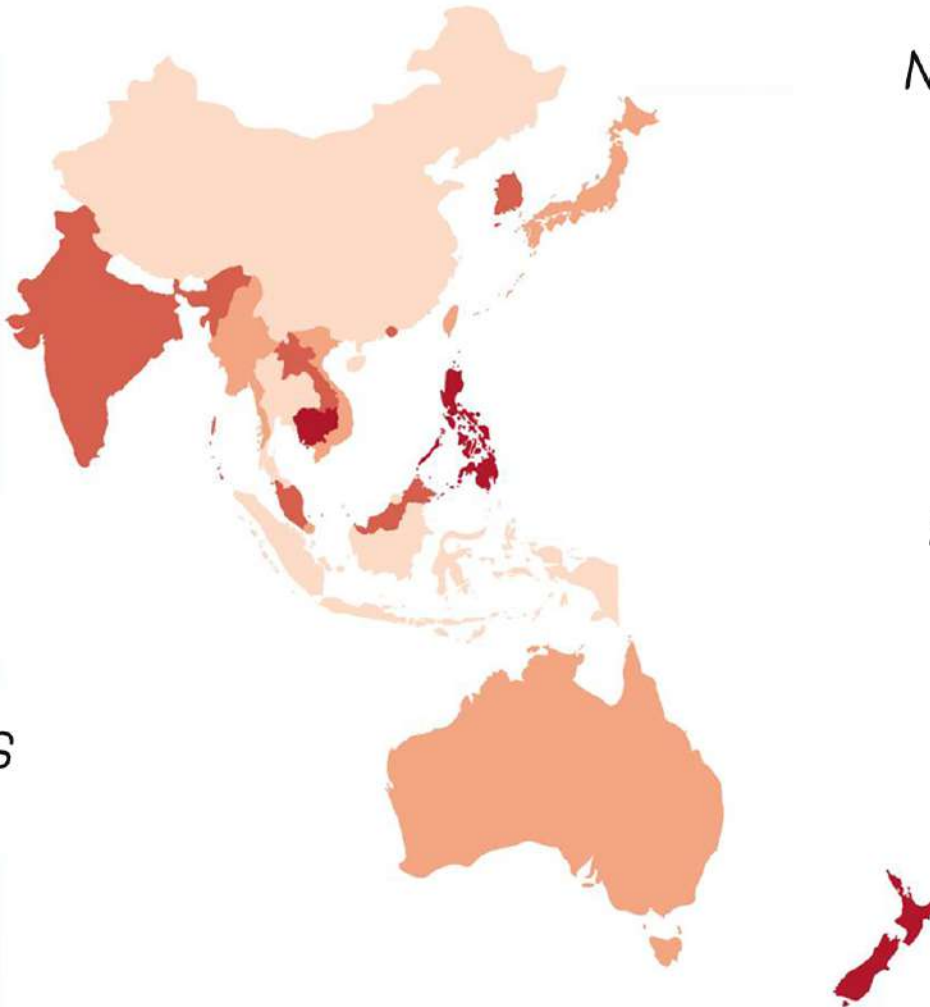
CAMBODIA



AUSTRALIA



MALAYSIA



GENERAL RULES

ELIGIBILITY

Undergraduate students currently in their Final Year or equivalent, enrolled in the fulfilment of a degree-level/bachelor-level programme in any institution (public or private) in Malaysia or abroad related to a chemical engineering discipline, are invited to be participants in the Congress.

This includes, but is not limited to, the following fields:

- Chemistry/Chemical Technology/Chemical Process/Industrial Chemistry
- Biotechnology/Biochemistry/Biomolecules/Biology/Biosystems/Bioprocess
- Gas/Petroleum/Petrochemicals/Energy/Renewable Energy
- Food/Environmental/Materials/Water/Waste/Sustainability
- Other Science, Technology, Engineering and Mathematics (STEM) undergraduates but have a strong interest in solving a chemical engineering-related issue are welcome to participate.
- Other university students, academic staff/lecturers and industrial representatives are invited to be attendees to the Congress.

REGISTRATION

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

Registration for the Regional Chemical Engineering Undergraduate Congress (RCEUC) 2019 opens on the 21st January 2019.

Registration is acceptable via google form before 31st March 2019 (early bird registration) or 31st May 2019 (normal registration).

Submit your 300-word abstract by filling up the abstract submission form and send it to contact.rceuc@gmail.com before 10th June 2019 (12:00 UTC).

REGISTRATION PACKAGES

RCEUC offers various registration packages as follows:

Participant*		Student Attendee*		Attendee*	
Early Birds RM 120 USD 30**	Normal RM 150 USD 40**	Early Birds RM 80 USD 20**	Normal RM 100 USD 30**	Early Birds RM 100 USD 25**	Normal RM 120 USD 30**
Offered to undergraduate students who are participating in either Oral or Poster presentations.		Offered to all students who are NOT participants in either the Oral or Poster presentations.		Offered to academic staff/lecturers and industrial representatives.	

*Package inclusive of accommodation, food (2 breakfasts, 2 lunches, 2 tea breaks and Gala Dinner) and conference materials.

** For participating universities outside Malaysia.

PAYMENT METHODS

Payment must be made before **31 March 2019** (Early bird payment) or **31 May 2019** (Normal payment).

To proceed with your payment for the event, you can choose from the three options below:

- Online transfer through Telegraphic
- Cash deposit
- Cheque deposit

Our bank account details are as follow:

Bank account name: **Universiti Malaya**

Bank account number: **98905000001206**

Bank name: **CIMB Bank Berhad**

Bank address: Lot 5270, Bangunan Pentadbiran Baru, Universiti Malaya 50603 Kuala Lumpur, Malaysia

Swift Code: **CIBBMYKL**

Notes/Details: RCEUC 2019

Once you have made your payment, kindly snap a picture of your receipt and email it to us at contact.rceuc@gmail.com for confirmation.

ORAL PRESENTATION GUIDELINES*

DESCRIPTION

- a) Student's research project of various fields in chemical engineering will be presented in the form of a poster directly to judges for evaluation.
- b) This competition is separated into 5 categories:
- Advanced Materials Engineering
 - Energy Security
 - Water Security and Environment
 - Food and Biotechnology
 - Process Control and Safety
- c) Outline and content are encouraged to focus on:
- Title
 - Supervisor
 - Objective or Introduction
 - 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 a Chemical Engineering Program (or equivalent) in any institution (public or private) in Malaysia or abroad. Participation not only restricted to final year students.

b) This includes, but is not limited to, the following fields:

- Chemistry/Chemical Technology
- Chemical Process/Industrial Chemistry
- Biotechnology/Biochemistry/Biomolecules
- Biology/ Biosystems/Bioprocess
- Gas/Petroleum/Petrochemicals/Energy/Renewable Energy

c) Science, Technology, Engineering and Mathematics (STEM) undergraduates with a strong interest in solving chemical engineering-related issues are welcome to participate.

RULES & REGULATIONS

a) Each university/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) Competition flow- Only **First Round** and **Second Round** throughout the competition.

d) In the first round, the time limit is strictly followed to **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 impose mark deductions.

e) In the first round, presentations are carried out according to categories. **ONE best presenter** from each category will be selected to enter the second round.

f) In the second round, the time limit is strictly followed to **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 impose mark deductions.

g) In the second round, the best presentations from each category will compete with each other for the awards.
- **1 MINUTE** is given to each participant for technical set up.

h) All the presenters are required to wear formal attire during the presentation.

PRESENTATION GUIDELINES

a) Presentation equipment (computer and projector) will be provided. Visual aids are allowed to facilitate discussion.

b) Laser pointers will not be available. Bring your own if you would like to use one.

c) Keep your visuals **CLEAR and SIMPLE**. Simple graphs, charts and diagrams are much more meaningful. Minimize use of words for text and title frames.

d) 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.

e) Presentation sequence will be decided during the day of registration to confirm the number of participants.

FORMAT

a) Language for poster and presentation: **Formal English.**

b) All presentation slides must be prepared in **Microsoft Office Power Point** (saved in .ppt or .pptx format), **maximum 20 slides.** Cover page and table of content are calculated if any.

c) New presentation aids like Prezi are not encouraged to prevent technical issues.

d) However, you may use extensive video or graphical attachment to facilitate discussion.

e) All references should be cited as a footnote in the presentation slides.

JUDGE EVALUATION

a) The panel of judges consist of lecturers who have been chosen by the organizing committee/ technical / organizers are highly qualified individuals who are able to give fair judgement without taking sides toward any teams.

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 presentation as well as the content of their research during the competition.

e) A copy of the marking criteria will be sent to the participants once registration is confirmed.

PRIZES

a) Three best poster presentations will be selected as the winners. The rewards for the winners are:

- 1st Prize: RM 1,000.00 & certificate
- 2nd Prize: RM 500.00 & certificate
- 3rd Prize: RM 300.00 & certificate

b) All participants will be awarded a certificate of participation.

SUBMISSION GUIDELINES

a) A copy of the **presentation slides** must be sent via email to: contact.rceuc@gmail.com with the subject RCEUCI Presentation slides | University Name | Category.

b) Due date of submission is **20th June 2019 (Mandatory first submission)**

c) If you have further additions or updates to your slides, you can simply bring the updated one and hand it in to the responsible event officer during your registration (**7th July 2019**). (**That will be the final submission for your slides**)

RESULTS

The winners of this competition will be announced during the RCEUC 2019 closing ceremony on **9th July 2019**.

** These guidelines need to be followed closely. The host has all 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.*

POSTER PRESENTATION GUIDELINES*

DESCRIPTION

a) Student's research project of various fields in chemical engineering will be presented in the form of a poster directly to judges for evaluation.

b) This competition is separated into 5 categories:

- Advanced Materials Engineering
- Energy Security
- Water Security and Environment
- Food and Biotechnology
- Process Control and Safety

c) Outline and content are encouraged to focus on:

- Title
- Supervisor
- Objective or Introduction
- 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 a Chemical Engineering Program (or equivalent) in any institution (public or private) in Malaysia or abroad.
- b) Participation not only restricted to final year students.
- c) This includes, but is not limited to, the following fields:
- Chemistry/Chemical Technology
 - Chemical Process/Industrial Chemistry
 - Biotechnology/Biochemistry/Biomolecules
 - Biology/ Biosystems/Bioprocess
 - Gas/Petroleum/Petrochemicals/Energy/Renewable Energy
- d) Science, Technology, Engineering and Mathematics (STEM) undergraduates with a strong interest in solving chemical engineering-related issues are welcome to participate.

RULES & REGULATIONS

- a) Each university/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) Competition flow - Only **First Round** and **Second Round** throughout the competition.

d) In the first round, the time limit is strictly followed to **15 MINUTES** allocated for **presentation** and **Q&A**. Judges are allowed to ask questions during the presentation. Exceeding the time limit may impose mark deductions.

e) In the first round, presentations are carried out according to categories. **ONE best presenter** from each category will be selected to enter the second round.

f) In the second round, the time limit is strictly followed to **15 MINUTES** allocated for **presentation** and **Q&A session**. Judges are allowed to ask questions during the presentation. Exceeding the time limit may impose mark deductions.

g) In the second round, the best presentations from each category will compete with each other for the awards.

- **1 MINUTE** is given to each participant for technical set up.

h) All the presenters are required to wear formal attire during the presentation.

i) All cost of the poster has to be covered by participants. The poster will not be collected by organizer.

FORMAT

- a) Language for poster and presentation: **Formal English.**
- b) The poster should be in **A1 size: 23.39" x 33.11" or 594mm x 841mm.**

JUDGE EVALUATION

- a) The panel of judges consist of lecturers who have been chosen by the organizing committee/ technical / organizers are highly qualified individuals who are able to give fair judgement without taking sides toward any teams.
- 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 presentation 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 poster presentations will be selected as the winners.

b) The rewards for the winners are:

1st Prize: RM 1,000.00 & certificate

2nd Prize: RM 500.00 & certificate

3rd Prize: RM 300.00 & certificate

- All participants will be awarded a certificate of participation.

SUBMISSION GUIDELINES

a) The presenters are required to print the poster and submit it to the committee during the registration day on **7th July 2019.**(During registration)

RESULTS

a) The winners of this competition will be announced during the RCEUC 2019 closing ceremony on **9th July 2019.**

*** These guidelines need to be followed closely. The host has all 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*

PLACES TO VISIT **IN KL**



PETRONAS TWIN TOWER

Anchoring the sprawling
Kuala Lumpur City



MENARA KL TOWER

Malaysia's most recognizable
and popular landmark



CHINATOWN

Oriental culture, heritage
and history spot in KL



KL BIRD PARK

Variety of recreated natural
habitats for different birds



BATU CAVES

Limestone hill comprising 3 major
caves and a number of
smaller ones



SUNWAY LAGOON

Variety of watery rides on
offered and plenty of dry- land
activities

CONTACT INFORMATION



Regional Chemical Engineering
Undergraduate Congress - RCEUC



rceuc2019



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



contact.rceuc@gmail.com