



UNIVERSITI  
MALAYA

IChemE

ADVANCING  
CHEMICAL  
ENGINEERING  
WORLDWIDE



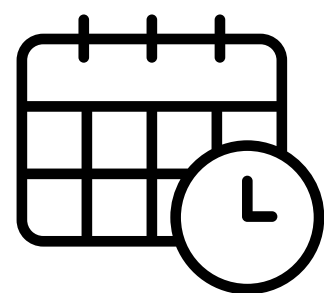
**NACES 2023**

# NACES 2023

NATIONAL CHEMICAL ENGINEERING SYMPOSIUM 2023

## RULES & REGULATION

TECHNICAL INFOGRAPHIC COMPETITION



**16 - 17 December 2023**



**Universiti Malaya (UM),  
Kuala Lumpur**

# THEME

## **Mainstreaming Lab-grown Food: Chemical Engineers to the rescue!**

Population growth, land scarcity, climate change, and food security are all interrelated global issues that are placing great strain on the planet. By 2050, there will be 9.7 billion people on the planet, and the need for food is anticipated to rise. However, with approximately 40% of the land on the planet being used for agriculture, we are already facing a land shortage. Extreme weather events and shifting weather patterns are making the problem worse and reducing crop yields and food production. Food security as a result is becoming harder to maintain, especially in developing nations. We must come up with sustainable methods that boost food production while reducing their negative effects on the environment to address these issues. Sustainable agricultural methods, reducing food waste, promoting plant-based diets, and the development of technology like lab-grown food might all be part of the solutions.

Chemical engineers are essential to the advancement and acceptance of food produced in laboratories. They are well positioned to address the technical difficulties of scaling up cell-based meat production since they are experts in the design and optimisation of chemical processes. This theme will explore the interdisciplinary nature of lab-grown food production, highlighting the critical role that chemical engineers play in developing and optimising the various stages of the process, from cell cultivation to final product formulation. It will also look into the difficulties the industry is currently facing, such as the need to create sustainable, cost-efficient production methods that fulfil high requirements for food safety and quality. The theme will emphasise the most recent advancements in food production from lab-grown sources and their possible effects on the environment and the food sector. Overall, the theme will give participants a forum to interact and debate how chemical engineering may help develop a future food system that is sustainable.



# OBJECTIVES

1

**To encourage Engineering undergraduates to use their knowledge, innovative ideas, and skills to solve Engineering challenges.**

2

**To test the competency among Engineering Undergraduates in solving a given Engineering issue.**

3

**To let Chemical Engineering undergraduates have an insight to lab-grown food and the importance of the contribution of chemical engineering to food and beverage production.**



# COMPETITION DESCRIPTION

- It is an **INDIVIDUAL** competition.
- This competition will be conducted via **ONLINE**.
- Participants in this competition must create an infographic that demonstrates the topic relating to the competition's theme, which will be announced during the participant briefing session on **21 October 2023**.
- In this context, it could be expertise in chemical engineering, the newest products or technologies, and more. Participants must also mention the procedure or chemical method used and explain it appropriately. Participants in this competition have to showcase their passion for invention, critical thinking abilities, and graphic design skills.

# ELIGIBILITY

1

Participants must be **full-time undergraduate students** enrolled in the **Chemical Engineering Program** (or equivalent) offered by one of the participating universities/ institutions.

2

Participants must submit an **APPROVED** original copy of their **student identity card (Matriks Card)** together with the **LATEST module registration file**.

3

Each participant is only allowed to participate in **ONE (1) physical mode competition** and **ALL online mode competitions**.

# FORMAT //

## 1 Poster Guidelines

- The theme of the poster must follow NACES 2023's theme including the footer that is provided in the drive.
- The footer should be inserted at the bottom of the infographics poster. (The footer will be given in the Google Drive link which will be provided during the briefing session on **21 October 2023**.)
- All entries must be in English.
- Any editing software, including Canva, PowerPoint, Adobe Illustrator, and Adobe Photoshop, etc may be used by participants.
- Resolution of the product: 300 pixels per inch or above.
- Size of poster: 1350-pixel height x 1080-pixel wide.
- Poster orientation must be in Portrait.
- Poster must be submitted **ONLY** in JPEG or PNG.
- Avoid using a shadow effect and small font sizes.
- Use clear photos only.

## 2 Caption Guidelines

- For online voting purposes, participants must provide a caption to describe their poster.
- There is a **50 WORD LIMIT** for the caption.



# // RULES & REGULATION

- Each campus is entitled to send a maximum of **FIVE (5) participants.**
- Each participants is entitled for **ONE (1) submission only**
- The invention must be **NEW** (except for products that have been enhanced or further developed).
- Political and '3R' - Race, Religion and Royalty contents are **NOT ALLOWED.**
- Inappropriate words and graphics are **NOT ALLOWED.**
- Plagiarism is **STRICTLY PROHIBITED.**
- Any entry not adhering to the rules and poster guidelines will be **DISQUALIFIED AUTOMATICALLY.**
- Upon the poster submission, any modification on the contents is not allowed. Evaluators have the right to penalise the participating team for the change of contents.

# SUBMISSION GUIDELINE

## Softcopy Poster Submission

**1** Submission deadline: **23 November 2023 11:59 pm**

**2** Submissions can only be made one week before the submission deadline (**18 November 2023 12:00 am- 23 November 2023 11:59 pm**).

**3** Format:  
• File name:  
[TIC]\_Name of University/Institution\_Full Name

**4** The poster must be submitted in the specified format and reached the organiser (via email) before the stated deadline for submissions.

**5** Email: [admin\\_jkk.event@um.edu.my](mailto:admin_jkk.event@um.edu.my)



# SUBMISSION GUIDELINE

6

**Email Subject:**

**[TIC]\_Name of University/Institution\_Full Name**

- **Example: [TIC]\_UM\_Clement Fong Yan Shen**

7

**Failure to set a proper name during the competition will lead to null results for the competition.**

8

**All successful receipt of submissions will be notified via the provided email within 3 working days. If the participants do not receive any reply from us, please do not hesitate to contact the organiser.**



# SCORING

## 1 Infographic poster [85%]

- **Content [40%]**

- **Accurate information**
- **Quality of data and chart**
- **Fact and references**

- **Design [20%]**

- **Layout**
- **Font**
- **Colour scheme**

- **Clarity [15%]**

- **Efficiency**
- **Clear impression / convincing**
- **Easy understandable**

# SCORING

- **Creativity [10%]**
  - **Attractive poster**
  - **Originality**
  - **Additional element enhancement**

## 2 Online Voting [15%]

- **Divide by the number of likes in the highest liked post and times 15%.**

- **Any suspicious and doubtful action on social media (Instagram) toward the post will cause the participant to be disqualified.**

# RESULT

**The winners of the competition will be informed one week earlier to come to the NACES 2023 Closing Ceremony on 17 December 2023 for a prize giving session.**

# PRIZES

## TECHNICAL INFOGRAPHIC



**RM 150**



**RM 120**



**RM 100**

**Top three winners will receive trophies and cash prizes.  
All entries will be given a certificate of participation.**

# IMPORTANT NOTES

**Each participant must agree to be bound by the official contest rules. The organiser has all the rights to eliminate or disqualify any participants that violate the guidelines as stated above. Such actions may be taken by the host without any prior notice.**

**The judges' decisions are final and any appeals to the decisions will not be entertained.**

**Participants must complete the registration form by **18 October 2023 11: 59 pm** to be eligible for participation.**

**Any changes on the confirmed participants' list must be informed before **20 October 2023 11:59 pm**.**



# IMPORTANT NOTES

**Organiser will hold the right to publish submitted presentations for future publications without prior notice to the participants. Kindly notify the organiser if you have a patent or copyright reserved.**

**Registration fees are non-refundable.**

**The contents of this booklet are subjected to amendment and improvisation. Participants will be notified when the amendments are made.**

# CONTACT INFORMATION



**PIC:**

**+60 11-1314 8733 (Clement Fong Yan Shen)**

**PIC:**

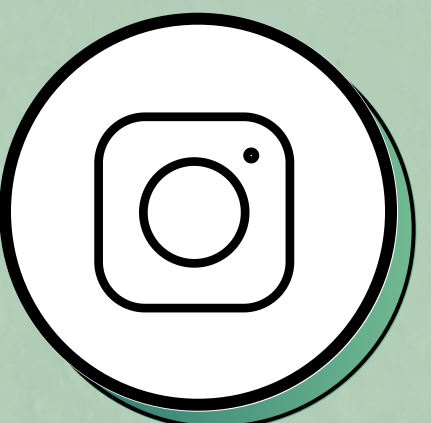
**+60 11-1050 0967 (Ooi Rou Xi)**



**admin\_jkk.event@um.edu.my**



**<https://umevent.um.edu.my/NACES2023>**



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