



Process Engineering  
and Energy Days  
2020

# Chemical Product Design Competition

---

University Indonesia  
March 5th - 7th 2020



# about

## CPDC

Chemical Product Design Competition (CPDC) is an annual competition with an international scope for students from various majors which focused on designing an applicable and economically-viable chemical-based product. Moreover CPDC encourages students to innovate a product that is able to solve global issues and challenges based on core competencies of chemical engineering. Every year, CPDC receives more than a hundred abstract submissions and has participants from more than fifty of the best national and international universities.

## theme

### **Utilizing Bioresources as Clean and Sustainable Consumer Goods**

Do you know that by using consumer goods, consumers are responsible for more than 60 percent of the world's greenhouse gas emissions?

Yes, we are all guilty for that.

But now, you have the power to change this problem by utilizing bioresources as clean and sustainable consumer goods. So, what are you waiting for? Come join us!

## Subtheme

---



### 1. Personal Care

Everything you put in your body is a form of personal care; the shower gel, shampoo, lotion, cosmetics, and many more. Can you make these products not only look after your body, but also the environment?



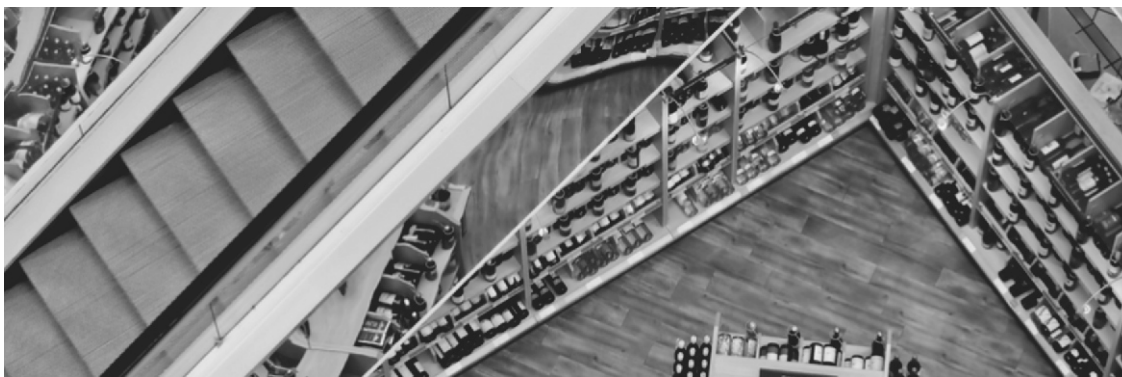
### 2. Households

Every corner of our house needs care; the floor needs a cleaner, the dishes need soap, the laundry needs detergent, and so on. With this much demand, can you turn all these products to be more eco-friendly?



### 3. **Health and Nutrition**

Health and nutrition are essential factors we need to pay attention to in order to survive. But what if the things that keep us humans healthy, harm other beings and the environment instead? Do you dare to change it?



### 4. **Packaging**

You might never lay your eyes on a package for a long time, but the truth is everything we use comes in a package to wrap and protect goods. It's time to create a packaging that won't harm the environment!

# Benefits

---

- Stand a chance to win a total prize of IDR 60,000,000 and a special award for the Most Favorite product
- Experience the exciting journey to learn and thrive at every stage of CPDC. As participants of CPDC, you will get the opportunity to:
  - Develop and implement your innovative idea that could create a positive impact globally
  - Be assessed and reviewed by a panel of academics and successful practitioners of product development
  - Display your product in Product Exhibition day which opens for feedback and new partnership opportunities
  - Present and pitch your product in front of academics, investors, business innovators, or industry experts
- Get inspiring network with experts from international developments, academia, and the private sector. You will also have a chance to meet outstanding students from other universities

# Terms and Condition

---

## 1. Participants

- All participants must be actively enrolled undergraduate students (pursuing bachelor/diploma) until the time range of March 2020, proven with Student's Card.
- Each team consists of 3-5 members, with a minimum of one member is from Engineering major.
- Each team is led by one team leader.
- All team members are studying in the same educational institution.
- Each participant can only be a member in only one team.
- Each team may have one lecturer from the related institution as a mentor to support the team throughout all stages of the competition.
- One educational institution may send more than one team for the competition.
- Each team has to fill the registration form via PGD UI 2020's official website and then complete the registration fee to get the 1st Stage (Abstract Selection) Guidebook of CPDC 2020.
- All registered participants are required to follow each and every stage of the competition (abstract selection, paper selection and grand finale) every time they make it to the next stage
- If any of the points stated above are not fulfilled, the team will get immediate disqualification

## 2. Competition

- One team can only submit one product.
- The proposed product must be related to the theme of 12th CPDC.
- The product must be original and has never been commercialized or submitted to other competitions. This item is proven by a statement letter with stamp of duty which state that the submitted product has never been commercialized or submitted to other competitions before. Violation of this rule leads to immediate disqualification.
- All of the competition materials must be done in English.
- The submissions of materials for each of the stages have to follow the requirements from the competition guidebook.
- A fraud or cheating one by participants during the competition, will result in immediate disqualification.
- The decision of the judges and the committee is absolute and final.

# Registration Process

## Register

Register your team via [www.pgdui.com/cpdc](http://www.pgdui.com/cpdc) and provide valid data for the required information.

- General Information : Team name; University
- Personal Information : Full name; e-mail; phone number; major; year in major; student card

## Pay

If your registration is successful, you will receive an e-mail for the Payment Guideline. The registration fee for:

- Early Bird (September 13th – 30th 2019)  
Rp100.000
- Regular (October 1st - November 1st 2019)  
Rp150.000

Send the payment receipt to e-mail [registration.pgdui@outlook.com](mailto:registration.pgdui@outlook.com)

## Get The Guidebook

After completing the payment, you will receive the 1st Stage Guidebook of CPDC PGD UI 2020 through e-mail for the details about the submission

## Submin a Great Idea

Submit your abstract and statement letter via e-mail [cpdc.pgdui@outlook.com](mailto:cpdc.pgdui@outlook.com) within the date's range. The announcement of selected abstracts will be held on November 23th 2019 through e-mail. The selected abstracts will get another guidebook and proceed to the next stage.



# Competition Stage

- **1st stage: Abstract Selection**

The abstract selection aims to find the most outstanding ideas among all participants. During this stage, participants will write down their idea of the proposed product in the form of extended abstract and send via [cpdc.pgdui@outlook.com](mailto:cpdc.pgdui@outlook.com). The detailed information about the abstract submissions can be found on the 1st Stage Guidebook of CPDC UI 2020. The list of proceeding abstract will be announced and receive an e-mail regarding the notice.

- **2nd Stage: Full Paper Selection**

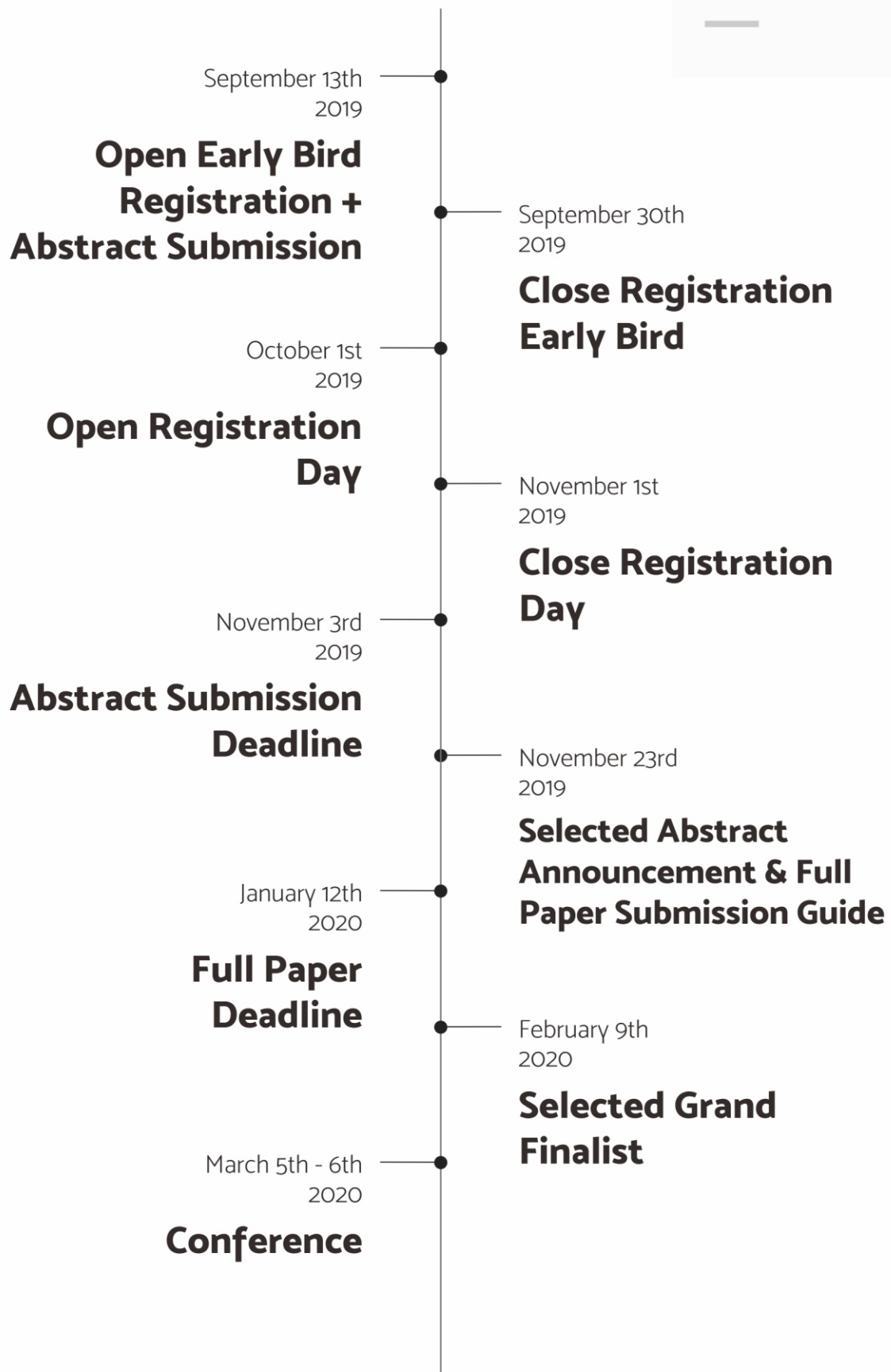
The full paper selection requires the selected team to write a full paper containing a structured and elaborated explanation of the proposed product. The 2nd Stage Guidebook of CPDC UI 2019 will be sent through an e-mail to the selected team at the start of 2nd stage. The full paper should be submitted through [cpdc.pgdui@outlook.com](mailto:cpdc.pgdui@outlook.com) within the date range. The list of proceeding team, the finalists, will be announced through PGD UI 2020's official account and they will receive an e-mail regarding the notice and the 3rd Stage Guidebook of CPDC UI 2020.

### 3rd Stage: Grand Finale

At this stage, the finalists are required to prepare the final presentation and prototype about the proposed product. The finalists will be invited to join the Grand Finale of CPDC 2020 which consists of three main events:

- **Product Design Talk.** The inspiring talk show hosted by the industry leaders. The finalists will get information and tips to level up their skills in product design yet their preparation before the Final Presentation.
- **Final Presentation.** The final presentation aims to find the best overall performance of the finalists. Each finalist will present their product to the judges and face question and answers sessions. Besides that, the finalists must show and demonstrate the prototype of product which will be one of the key assessments.
- **Product Exhibition.** The finalists have to present their products to the students, media, investors, and other visitors in the Product Exhibition. The goal of this exhibition is to show all the innovative and high-impact products made by the finalists in line with educating the visitors about the global sustainability issues. The finalists will have a chance to get the “Most Favorite Product” award in this event. The Grand Finale will be closed by Awarding Night to announce the winner of 12th CPDC PGD UI 2020.

# Timeline





Sponsored By

DOW



Schlumberger

Tanaka  
Foundation

PARACON

PT. KIRI

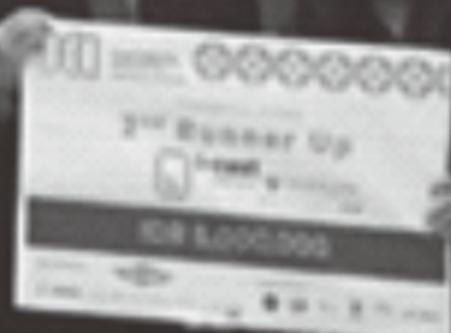
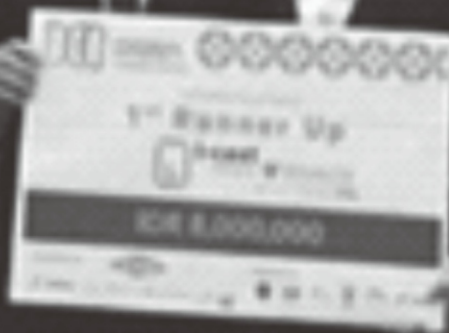
Equatorial

PT. KIRI

PT. KIRI

Process

winners



## Prizes and Awards

- Winner : **IDR 25,000,000 + Certificate**
- 1st Runner Up : **IDR 15,000,000 + Certificate**
- 2nd Runner Up : **IDR 10,000,000 + Certificate**
- Most Favorite Product Award
- Printed Certificate of Participation for Grand Finalists
- E-Certificate of Participation for Top 30

# Contact Person

---

Muhammad Agus S. (089637402880)  
Aziza Nurul Fitri (085770269415)  
Ade Andita Putri (081283897914)