



Call for Participating Students for International Joint Work on SDGs at the 20th Asia Pacific Chemical Engineering Confederation Congress (APCChE2023)

SDGs committee, Society of Chemical Engineers, Japan (SCEJ) (April 24, 2023)

SCEJ presented the Sapporo Declaration "Declaration on the United Nations SDGs at Sapporo 2019 - Chemical Engineering for Human Well-Being" (<https://www.sdgs.scej.org/sapporo-declaration/>). The declaration is an important theme at APCChE2023 (<https://apcche2023.org/>) to be held in Philippines from 4 to 9 September, where a special SDGs symposium will be held. We call for students who will present research proposals on how chemical engineering can contribute to the achievement of the SDGs in the Asia-Pacific region. This time, we have two categories for students' participation. Visit our website for messages from previous participants (<https://www.f.waseda.jp/noda/APCChE23-SDGs/>).



Type 1. International Joint Work

Several teams of several students from diverse countries and regions will be formed. The teams will be advised by professors and researchers in Japan, Malaysia, the Philippines, and China, and will conduct research on a specific theme related to "Contribution of Chemical Engineering to the Achievement of the SDGs in the Asia-Pacific Region" and propose solutions to the problem. Team research will be conducted with online meetings held every 1-2 weeks from May to August. Participating students are expected to put in about one day a week of effort. If good results are obtained, we will consider submitting them to journal articles and proposing international joint projects to the research budgets of the respective countries and regions. Students will decide their own research themes with the support by advisors. For reference, students last year made proposals of "Waste Water Treatment and Coproduction of Valuables in the Palm Oil Industry", "Solving Bali's Marine Plastic Problem", "Sustainability Assessment and Optimal Selection of Hybrid Renewable Energy System for Resilient Off-grid Water Security Application" and "Grid Impact of Electric and Hybrid Vehicle Fast Charging Stations". The students will participate in APCChE2023 either onsite or online, present their proposals as posters and online movies at a special session on the SDGs, and participate in group discussions with audience members to exchange ideas and collaborate. SCEJ covers the students' registration fee for APCChE2023.

Type 2. Individual work

Students may also make research proposals based on their individual works. Students can make teams within and outside of their institutions to conduct the works. The students will participate in APCChE2023 either onsite or online, present their proposals as posters and online movies at a special session on the SDGs, and participate in group discussions with audience members to exchange ideas and collaborate. SCEJ does NOT cover the students' registration fee for APCChE2023. We expect students who will make APCChE registration by themselves for presentation at the technical sessions, too.

Important dates (common for Types 1 & 2)

May 15 Deadline for application to this event. Please make application through Google forms at:

<https://forms.gle/qoW19JxsKjvAeXps5>

- Jul. 31 Deadline for abstract submission
- Aug. 31 Deadline for submission of posters and movies
- Sep. 8 SDGs special symposium. Below is the tentative program.
 - Session 1. Lectures
 - Session 2. Poster Presentations
 - Session 3. Participatory Workshop
 - Session 4. Summary & Networking

Awards will be given to excellent proposals.

Organizers: Suguru Noda (Waseda U., Japan), Satoko Fujioka (Keio U., Japan), Mitsuo Yamamoto (U. Tokyo, Japan), Joey D. Ocon (U. Philippines Diliman, Philippines), Keat Teong Lee (U Sains Malaysia, Malaysia), Bing Zhu (Tsinghua U., China)

Advisors: Heng Yi Teah (U Tokyo, Japan), Zih-Ee Lin (Waseda U., Japan), Hooi Ling Lee (U Sains Malaysia, Malaysia), Noorashrina A. Hamid (U Sains Malaysia, Malaysia), Lawrence Limjuco (U Philippines Diliman, Philippines), Zhongming Chen (Dongguan University of Technology), Fukuya Iino (UNIDO, Austria)

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