APCChE 2019 - Chemical Engineering for Sustainable Development Goals (ChemE4SDGs)

http://apcche2019.org/

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APCChE 2019 Schedule Overview

	September 23, Monday Day 1	September 24, Tuesday Day 2	September 25, Wednesday Day 3	September 26, Thursday Day 4	September 27, Friday Day 5
9:00-10:00		Opening Plenary 1	Plenary 2	Plenary 3	Plenary 4
10:00-10:30		Coffee break	Coffee break	Coffee break	Coffee break
10:30-12:00	Student program (Open for public)	Parallel session	Parallel session	Parallel session	SDGs Forum Closing
12:00-13:30		Lunch break	Lunch break	Lunch break	(Open for public)
13:30-15:00		Parallel session	Parallel session	Parallel session	
15:00-15:30		Coffee break	Coffee break	Coffee break	
15:30-17:00		Parallel session	Parallel session	Parallel session	
17:00-19:00	Welcome Reception	Poster session	Poster session	Congress dinner 18:00-20:30	

APCChE-UNIDO↑
(Open for public)

Other programs:

- 14 technical sessions on chemical engineering.
- Several symposiums on special topics.

Chemical Engineering & SDGs

Student Program: Research Proposal from Youth

Contribution of Chemical Engineering to SDGs

- To encourage students' challenge to the initiative of the UN's SDGs, the Student Program will be held on 23 September.
  We calls for research proposals that are not constrained by conventional practice to further applications of chemical engineering to achieve the SDGs.
- We will invite experienced researchers and engineers with knowledge and skills who could help conduct proposed research, research and governmental institutions promoting technology transfer, socially responsible investors considering the ESG (environment, society, governance) as audience in an interactive session.
- The expected result of this program is collaboration and actions in the region and beyond. Please submit a proposal by March 2019.

Organizers: Suguru Noda (Waseda Univ.), Mitsuo Yamamoto (Univ. Tokyo), and others

Date: Sep. 23(Mon), 2019
Open for public (can join without registration fee)
Related open event: APCChE-UNIDO Special Symposium (Sep. 24).
Registration fee is needed for the main APCChE 2019 Congress (Sep. 24–27).

Tentative Program

11:00–11:05 Opening remarks/addresses from organizers

11:05–11:35 Keynote: Prof. Yuko Hayashi (Yamaguchi Univ.) “Science, Technology and Innovation for SDGs”

11:35–12:05 Keynote: Prof. Joey D. Ocon (Univ. Philippines Diliman) “Techno-Economic Studies on Renewable Energy-based Off-Grid Electrification in Small Islands”

12:05–13:00 Short Presentations from Students (1–2 min per group)

13:00–14:30 Poster Session from Students & SMEs* (with light meal)

14:30–15:00 Session Summary & Impact Award

*SME: Small and Medium-sized enterprise

Application Guidelines

Category (A) Technical research proposal to solve concrete problems

Please propose a concept to solve regionally specific issues, preliminarily examine literature surveys, interviews with stakeholders, etc., the anticipated technological and economic bottlenecks, measures necessary to solve them, etc. Theme examples are:

- ✓ *The essential cause of the plastic waste problems and how to solve it?*
- ✓ *How do we balance low carbon and stable energy supply?*
- ✓ *How will you prepare for the huge waste of mega solar to be disposed in 20 years?*
- ✓ *How can we proceed with district cooling and air conditioning in tropical areas with low environmental impact?*

Any subjects related to chemical engineering could be proposed. Please freely set the proposal topic with reference to but not constrained by the above examples. Please explain concretely the expertise, technology, research equipment / information, research funds etc. needed for the execution of that proposal.

Application Guidelines

Category (B) Goals, targets and Indicators to measure the impact of chemical engineering on the SDGs

While the contribution to the SDGs is drawing attention, indicators to measure the impact of chemical engineering on the SDGs are needed.

We refer to existing SDG indicators which are macro-indicators and not necessarily can be aggregated from the bottom up.
(eg. https://unstats.un.org/sdgs/indicators/indicators-list/)

Please propose new indicators to measure the impact of chemical industry on the SDGs.

Proposal Format

A4 within 10 pages, English, Word or PDF. We recommend an outline as follows.

1. Proposed category (A) or (B)
2. Abstract of 1 page (to be posted on http://apcche2019.org/)
   (you may have advisor(s) as co-proposer(s))
3. Problem to be addressed
4. SDGs targets and Indicators
5. Purpose and outlook of the proposal
6. Literature survey / interview results
7. Research question and hypothesis
8. Research method / procedures
9. Research plan
10. Partner candidates, recruitment for collaborators
11. References

Review, Support, Prize, and Deadline

Peer Review and Financial Support:

- Submitted proposals will be reviewed by the organizing committee members.
- Financial support (up to JPY100,000 and the exemption from conference registration fees for 5 participants per group) will be granted for outstanding proposals.

Impact Prize:

- Based on the feedback of the organizing committee members and the audience on the presentations, some prizes will be awarded to excellent ones.

Proposal Deadline:

- May 31, 2019 (extended).
  Details will be posted later at http://apcche2019.org/.

Expected Outcomes

i. Create vision and build network in Asia Pacific regions on contribution from chemical engineering toward SDSs.

ii. Build network among students, academia, industry, government, and citizen and create a SNS-based platform to initiate the collaborations and actions.

iii. Reconfirm chemical engineering as a practical science and engineering that can contribute to society (self-awareness of chemical engineers and recognition from society).