



September 9-12, 2025

**The 18<sup>th</sup> International  
Symposium on Advances  
in Technology Education  
(ISATE)**

***Bridging Borders:  
Engineering Education  
for Global Citizenship***  
<https://isate2025.toyota-ct.ac.jp/>

### Roundtable Submission Template

Name of Roundtable	Providing the FRUITS of KOSEN to future KOSEN	
Name of Facilitator(s)	Affiliation	Country
1.Sachiko Yoshida	Toyohashi University of Technology	Japan
2.Akihiro Wakahara	Toyohashi University of Technology	Japan
Lead Facilitator Email:	syoshida@tut.jp	

Sub-Theme (please select the closest match) (You may want to check the Call for Papers for examples)	Select One Only
ST1: Engineering Contributed to Welfare, from Health and Safety to Well-being	<input type="checkbox"/>
ST2: Pedagogical Innovation in Teaching & Learning	<input checked="" type="checkbox"/>
ST3: Artificial Intelligence in Teaching & Learning	<input type="checkbox"/>
ST4: Engineering Education for Global Citizenship	<input type="checkbox"/>

#### Overview of the Roundtable

A roundtable is an informal discussions of a topic related to teaching and learning proposed by a roundtable facilitator.

In the 60-odd years since KOSEN colleges were established, they have achieved great fruits in their mission to provide advanced engineers with the social implementation ability. The KOSEN education, which respects inspiration and concentration on technology, plays an important role in technological development in Japan. Meanwhile, the KOSEN education faces several challenges, one of which is to ensure the number and quality of teachers who are responsible for education. In this presentation, the Toyohashi University of Technology would like to make some proposals regarding teacher training for the-future of the KOSEN education.

#### Keywords (4 or 5, separated by commas)

KOSEN teacher training, female engineers, education skills, inclusion of engineers



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**Activities**

Include a brief summary of the proposed activities participants will undertake in the discussion, including some questions for discussion.

We present three themes about KOSEN teacher development through KOSEN-GIKADAI collaboration. Yoshida explains challenges, and Wakahara makes some proposals about (i) Reproduction of KOSEN personnel, (ii) Establishing of role models for female engineers, and (iii) Inclusion of KOSEN engineers in Japanese society.

**Target Audience**

Explain who should attend this roundtable and outline any background knowledge required from participants.

Members in KOSEN and Universities, including teachers and students.

Researchers in companies, and all persons who have interest in KOSEN and GIKADAI system. In this roundtable, we discuss fruits, problems and solutions in KOSEN-GIKADAI education.

**Follow-Ups, if any**

Are there any activities that is already envisioned for a follow-up from the roundtable, e.g. what participants are expected to do after ISATE 2025?

KOSEN Teacher Training Program from 2017 in Toyohashi University of Technology

**Resources Needed**

The organizer will try as much as possible to provide the resources requested. Please be as detailed as possible. The organizer will contact the Lead Facilitator via the email address provided if clarification is needed.

**Projector**

Several hand microphones