

“Power of Chemistry Education
for Advancing **SDGs**”



SYMPOSIUM B:

Promoting students' modeling competence via modeling-based instruction and assessment

July 16, 2024

(July 16, 2024 for Poster Presentation)



Chair

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Scientists use models to describe, explain, and predict how scientific phenomena occur, function, or behave. With such modeling competence, scientists can test their hypotheses, and link data, experiments, and explanations together to generate scientific theories. In school science practice, this type of learning is lacking. Students do not have enough opportunities to experience the process of inquiry, creating their models, verifying these models through experiments, and using them to build mechanistic explanations of relevant phenomena. Meanwhile, teachers should be well-equipped with the necessary pedagogical competence, content knowledge, and pedagogical content knowledge to guide and support students as they develop modeling competencies. In this symposium, modeling-based interventions and assessments, as well as evidence-based approaches to chemistry learning and teaching will be described, analyzed, and discussed.

Registration is now available



www.icce2024thailand.com

ATTENTION

- 1.) All poster presentations will be on July 16, 2024 at 17:40-21:00 (with a cocktail reception)
- 2.) Scholarships (to cover the conference registration fee) for school teachers and students have been offered.
- 3.) A one-day registration fee rate is available.