



## CE-Chemical Education

**Friday, 26 January 2024, Room: Silk 1**

**Chair:** Chatree Faikhamta, Kasetsart University

**Co-Chair:** Pattamaporn Pimthong, Silpakorn University

Time	Code	Title	Presenter
16.00 – 16.30	CE-I-01	Design and development of simple microfluidic paper- and thread-based devices for high school chemistry experiments	Saksri Supasorn
16.30 – 17.00	CE-I-02	Metacognitive calibration: Can students judge their abilities?	Witawas Handee
17.00 – 17.15	CE-O-01	Diagnosis of fundamental concepts of Chemical Basis of Life among high school students	Pongprapan Pongsophon
17.15 – 18.15	<i>Poster Session I at Bhiraj Hall 1</i>		
18.15 – 21.00	<i>Conference Banquet at Bhiraj Halls II and III</i>		

## CE-Chemical Education

**Saturday, 27 January 2024, Room: Amber 4**

**Chair:** Saksri Supasorn, Ubon Ratchathani University

**Co-Chair:** Witawas Handee, Silpakorn University

Time	Code	Title	Presenter
14.00 – 14.30	CE-I-03	The power of STEM Partnership for promoting STEM Skills	Pattamaporn Pimthong
14.30 – 14.45	CE-O-02	Promoting students' scientific explanation through the 6E STEM for BCG model on the topic of rate of reaction	Parinya Mutcha
14.45 – 15.00	CE-O-03	Entrepreneurial STEAM-BCG in a Cup: The Development of High School Student's Sensemaking Practices through Dialogical Argumentation with Chemistry Concepts	Tharuesean Prasoplarb
15.00 – 15.15	<i>Coffee Break</i>		
15.15 – 15.30	CE-O-04	Using an esterification activity to enhance advanced placement (AP) chemistry students' competency in higher-order thinking (HOT)	Sonthi Phonchaiya
15.30 – 15.45	CE-O-05	The effect of STEAM BCG through natural tie dye activities	Tanchanok Poonsin