

Technical Program

Friday September 8, 2023		
18:00-20:30	Welcome Reception	
September 9, 2023		
08:00-09:00	Registration (Conference Room 1)	
09:00-09:30	Opening Talk (Conference Room 1)	
09:30-10:30	Invited Speaker (Conference Room 1)	
10:30-10:45	Coffee Break (Conference Room 1)	
	Conference Room 1 LX10.02	Conference Room 2 LX11.03
10:45-12:00	1-A Oral presentations OP01-OP05 [CDIO, STEM Education, Co-Operative learning and Active Learning] Chair: Prof. Somchai Arunrungrusmi 5 presentations	2-A Oral presentations OP16-OP19 [Science, Technology & Engineering] [Material Science & Chemical Engineering] Chair: Prof.Dr. Satoshi Fukui 4 Presentations
12:00-13:15	Lunch Time	
13:15-14:45	3-A Oral presentations OP06-OP11 [CDIO, STEM Education, Co-Operative learning and Active Learning] [Vocational Education] [Computer & Information Technology] Chair: Noritsugu Kamata 6 presentations	4-A Oral presentations OP20-OP24 [Electrical and Electronic Engineering] [Mechanical Engineering] Chair: Prof.Dr. Shigeki Tomomatsu 5 presentations
14:45-15:00	Coffee Break (Conference Room 1)	
15:00-16:00	5-A Oral presentations OP12-OP15 [Other] [Renewable Energy, Environmental Engineering] Chair: Asst. Prof. Hiromichi Mamorita 4 presentations	

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16:00-17:00	6-A Poster presentations (Conference Room 1) PP01-PP07 [Renewable Energy, Environmental Engineering] [Science, Technology & Engineering] [CDIO, STEM Education, Co-Operative learning and Active Learning] [Other] Chair: Asst. Prof.Dr. Thaweesak Tanaram, Asst. Prof.Dr. Nuttee Thungsuk 8 posters
17:15-17:30	Award Ceremony
18:00-21:30	Banquet (Chao Phraya River)
<h2>September 10, 2023</h2>	
09:00-10:15	Study tour
10:15-10:30	Coffee Break
13:00	Technical Tour

Conference Room 1 LX10.02

OP01	10:45-11:00	The relevance of learning the principles and mechanisms of household appliances in the secondary school
OP02	11:00-11:15	Development of radiation education materials aimed at inquiry for stem education using educational data science
OP03	11:15-11:30	The education creativity in a digital educational ecosystems to encourage entrepreneurship aspiration skills
OP04	11:30-11:45	Development automation control with programmable logic controller training set
OP05	11:45-12:00	The development of problem-based learning in the course on dc circuits
	12:00-13:15	Lunch Time
OP06	13:15-13:30	The creation and construction of a contaminated waste collection robot artificial Intelligence (ai) is being used to combat the covid-19 virus
OP07	13:30-13:45	The development of one phase electric motor control with iot system to improve electrical power student for industry 4.0
OP08	13:45-14:00	The patience required of technical high school students in the department of mechanical engineering as considered by the companies
OP09	14:00-14:15	The international comparison of information technology education: a comparative study of middle and high school students against Japan, south Korea, Slovenia, and the United States of America
OP10	14:15-14:30	Development of compound teaching materials using microbit and practical teaching
OP11 (Online)	14:30-14:45	Survey of perceptions of uncertainty in web search results and classroom practice on information evaluation
	14:45-15:00	Coffee Break (Conference Room 1)
OP12	15:00-15:15	Mindfulness meditation and yoga exercises to improve concentration in pre-school children
OP13	15:15-15:30	Fabrication of silicon nanoparticles films covered with a chemically adsorbed monolayer having reactive epoxy groups for the solar cells
OP14	15:30-15:45	The mindfulness-based teaching method for early childhood with autism spectrum disorder
OP15 (Online)	15:45-16:00	Utilization of waste glass fiber reinforced plastic as a harmful gas adsorbent

POSTER (Conference Room 1)		
PP01	16:00-17:00	Solar radiant heat reducing effect of a rooftop greening material with lawn-grass
PP02		The trend of research and patents in abrasive flow machining
PP03		Environmental impacts on the performance of photovoltaic systems in Pibulsongkram Rajabhat University, Thailand
PP04		The developing mathematical calculation skills by using buddy techniques combined with small group activities through outcome-based education module (obem) sub-module
PP05		A study of satisfaction with enhancing vocational skills for students in opportunity expansion school in Ratchaburi province
PP06		A study on organic rankine cycle system using twin screw expander for medium and low temperature heat utilization
PP07		Bending stress analysis of a permeable pavement block using volcanic pumice

Conference Room 2 LX11.02

OP16	10:45-11:00	Development of a pavement block with a light weight as well as an extremely high permeability using volcanic pumice
OP17	11:00-11:15	Characterization of respiratory capabilities of electroactive bacteria strains isolated from Kuantan port marine sediment
OP18	11:15-11:30	Investigation of instability phenomena in low current vacuum arc
OP19	11:30-11:45	Effect of TiO ₂ -added on electrical properties of Zn-based composite
	12:00-13:15	Lunch Time
OP20	13:15-13:30	Feedforward parameter tuning for p-pi controller in motor positioning system
OP21	13:30-13:45	Study on collision mitigation motion including reaction suppression
OP22	13:45-14:00	Improvement of velocity control system with additional feedback for vibration suppression
OP23	14:00-14:15	Lubrication properties of lanolin mixed rapeseed oil under high surface pressure
OP24	14:15-14:30	Development of TIG MIG hybrid welding process

	14:45:15.00	Coffee Break (Conference Room 1)
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