

16th International Summer School on Advanced Studies of Polymer Electrolyte Fuel Cells and Hydrogen

Date: 2 - 7 September 2024

Place: Yokohama National University, Energy Eng. Bldg., Room 501
79-5 Tokiwadai, Hodogaya-ku, Yokohama 240-8501 JAPAN
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Organization

Prof. Shigenori Mitsushima
Prof. Yoshiyuki Kuroda
Misa Kimura
Chemical Energy Laboratory

	Monday 02. Sept 2024	Tuesday 03. Sept 2024	Wednesday 04. Sept 2024	Thursday 05. Sept 2024	Friday 06. Sept 2024	Saturday 07. Sept 2024
09:00 - 10:00	Welcome	Determination of kinetic parameters Boniface Kokoh	PEFC testing protocols Gaetano Squadrito	Mass transport in PEFC Takuto Araki	[Special lecture] Multiphysics modelling and AI-enable fuel cell and hydrogen research Lei Xing	Social Event
10:15 – 11:15	Principle and technical challenges of PEFCs Viktor Hacker	Synthesis methods for designing electrocatalysts Têko Napporn	Fuel cell lifetime and degradation Merit Bodner	Characterization of electrocatalysts with X-ray diffraction Aurélien Habrioux	Thermodynamics - Exercise Practical Training	
11:30 – 12:30	Fuel cell applications and market introduction Shigenori Mitsushima	Measurement techniques Yoshiyuki Kuroda	Modelling of fuel cell degradation Tomaž Katrašnik	Hydrogen production by water electrolysis Yoshiyuki Kuroda	Closing Ceremony	
	Lunch Break					
14:00 – 15:00	Fundamentals of electrode processes Bernhard Gollas	Technical Tour De Nora Permelec Ltd https://japan.denora.com/en/ - R&D laboratory for Water electrolysis - R&D laboratory for Direct MCH® with ENEOS - Industrial electrode fabrication process	Workshop Integration of hydrogen technologies into polygeneration energy systems Antonio Atienza-Márquez	Thermochemical hydrogen production and purification Viktor Hacker		
15:15 – 16:15	Modeling of PEFC Uwe Reimer		The Italian AdP-PNRR Hydrogen Gaetano Squadrito	Green hydrogen for our future sustainable growth Shigenori Mitsushima		
16:30 – 17:30			&Poster session			
17:30 – 18:30			Get-together / Catering			