

18th International Summer School on Advanced Studies of Polymer Electrolyte Fuel Cells and Hydrogen

Date: 30 August - 5 September 2026

Place: Yokohama National University, Energy Eng. Bldg., Room A107
79-5 Tokiwadai, Hodogaya-ku, Yokohama 240-8501 JAPAN
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Organization

Prof. Shigenori Mitsushima
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	Sunday 30 Aug 2026	Monday 31. Aug 2026	Tuesday 01. Sept 2026	Wednesday 02. Sept 2026	Thursday 03. Sept 2026	Friday 04. Sept 2026	Saturday 05. Sept 2026
09:00 - 10:00	Welcome Registration	Welcome	Determination of kinetic parameters Boniface Kokoh	Modelling of fuel cell degradation Tomaž Katrašnik	PEM fuel cell and electrolyser single cell testing Gaetano Squadrito	Thermochemical hydrogen production and purification Michael Lammer	Social Event
10:15 – 11:15		Principle and technical challenges of PEFCs Viktor Hacker	Synthesis methods for designing electrocatalysts Têko Napporn	Mass transport in PEFC Takuto Araki	Fuel cell lifetime and degradation Merit Bodner	Integration of hydrogen technologies into polygeneration energy systems Antonio Atienza-Márquez	
11:30 – 12:30		Fuel cell applications and market introduction Shigenori Mitsushima	Characterization of electrocatalysts with X-ray diffraction Aurélien Habrioux	Modeling of PEFC Uwe Reimer	Electrode Production Methods for Electrochemical Devices Michaela Roschger	Closing Ceremony	
		Lunch Break					
14:00 – 15:00		Fundamentals of electrode processes Bernhard Gollas	Workshop · Empowering the Pioneers of the Hydrogen Revolution: A Success Story in Twin Transition Education Ernst Kreuzer (TU Graz) · Activity Descriptors for Rational Design of Nonprecious Metal-based Electrocatalysts for Water Electrolysis Yuuki Sugawara (YNU) · H2START a project for EU hydrogen research and technologies diffusion Gaetano Squadrito (CNR ITAE) &Poster session	Multiphysics modelling and AI-enable fuel cell and hydrogen research Lei Xing	Technical Tour Toshiba Corp.		
15:15 – 16:15		Measurement techniques Yoshiyuki Kuroda		Overview and evaluation techniques for water electrolysis Yoshiyuki Kuroda		Social Event	
16:30 – 17:30							
17:30 – 18:30			Get-together / Catering				