

10TH INTERNATIONAL SUMMER SCHOOL ON ADVANCED STUDIES OF POLYMER ELECTROLYTE FUEL CELLS

Date:

20th Aug.- 25th Aug. 2017
Building of Energy Engineering (N8-8)
Yokohama National University,
79-5 Tokiwadai, Yokohama

Place:

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	2017/8/20	2017/8/21	2017/8/22	2017/8/23	2017/8/24	2017/8/25
09:00- 10:00		Fundamentals of electrode processes Prof. Bernhard Gollas	Ultra pure hydrogen production using Pd-based membrane reactors Prof. Angelo Basile	Step by step determination of the kinetic parameters of the ORR on carbon supported nanocatalysts (1) Prof. Boniface Kokoh	Modeling of Fuel cell (1) Dr. Uwe Reimer	Social Event Excursion Mt. Fuji!!
10:15 - 11:15		Basics of the electrochemical measurements Dr. Teko Napporn	Clean hydrogen production by water electrolysis Dr. Teko Napporn	Step by step determination of the kinetic parameters of the ORR on carbon supported nanocatalysts (2) Prof. Boniface Kokoh	Modeling of Fuel cell (2) Dr. Uwe Reimer	
11:30 - 12:30		Single cell test: setup preparation Prof. Gaetano Squadrito	Electrochemical impedance spectroscopy and harmonic distortion analysis Prof. Bernd Eichberger	Carbon support corrosion and membrane degradation Prof. Viktor Hacker	Heat and mass transport Prof. Takuto Araki	
12:30 - 13:30	Welcome	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:30- 14:30	Basics of fuel cells Prof. Viktor Hacker	Single cell test: common experiment procedures. Prof. Gaetano Squadrito	Technical tour Research park of Chiyoda co.	Work shop(Open session) Lecture of cutting edge Chemical design of nanomaterials for energy and environmental applications Prof. Yoshiyuki Kuroda Yokohama National University Insights from X-ray photoelectron spectroscopy data on electrocatalysts behaviour Dr. Christine Canaff CNRS University of Poitiers	Practical training Prof. Viktor Hacker Prof. Shigenori Mitsushima	
14:45 - 15:45	Environmental impact factor for hydrogen energy Prof. Ken-Ichiro Ota	Thermodynamics for hydrogen production Prof. Angelo Basile	Water electrolysis plant (AsahiKASEI) Spera hydrogen plant (Chiyoda)	HTPEM development in South Africa Dr. Cordelia Sita University of the Western Cape Students poster session Sushi party	Experiment	
16:00 - 17:00		Hydrogen storage and transportation Prof. Shigenori Mitsushima			Closing Ceremony Group Photograph	