

## 8TH INTERNATIONAL SUMMER SCHOOL ON ADVANCED STUDIES OF POLYMER ELECTROLYTE FUEL CELLS

**Date:** 31 Aug.-5th Sep. 2015

Building of Energy Engineering (N8-8)  
Yokohama National University,  
79-5 Tokiwadai, Yokohama

**Place:**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	2015/8/30	2015/8/31	2015/9/1	2015/9/2	2015/9/3	2015/9/4	2015/9/5
09:00- 10:00		Basics of fuel cells Prof. Viktor Hacker	Thermodynamics for hydrogen production Prof. Angelo Basile	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	Basics of electrochemistry and modeling (2) Dr. Uwe Reimer	Social Event
10:15 - 11:15		Clean hydrogen production by water electrolysis Dr. Teko Napporn	Single cell PEFC testing: MEA preparation Prof. Gaetano Squadrito	Electrochemical impedance spectroscopy and harmonic distortion analysis Prof. Bernd Eichberger	Step by step determination of the kinetic parameters of the ORR on carbon supported nanocatalysts (2) Prof. Boniface Kokoh	Heat and mass transport Prof. Takuto Araki	
11:30 - 12:30		Electrocatalyst preparation method Dr. Teko Napporn	Single cell PEFC testing: testing protocol Prof. Gaetano Squadrito	Environmental impact factor for hydrogen energy Prof. Ken-Ichiro Ota	Carbon support corrosion and membrane degradation Prof. Viktor Hacker	Practical training Prof. Viktor Hacker Prof. Shigenori Mitsushima	
12:30 - 13:30		Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:30- 14:30	Reception events	Basics of the electrochemical measurements Prof. Shigenori Mitsushima	Technical tour Tokyo Gas Co.	Lecture of cutting edge (Open session)	Basics of electrochemistry and modeling (1) Dr. Uwe Reimer	Closing Ceremony	Group Photograph
14:45 - 15:45				Evaluation of PEMFC porous electrode structure and cell performance by computer reconstruction and simulation Prof. Gen Inoue, Kyoto Univ., Japan		Experiments	
evening				Students poster session (open session)		Come together - Catering	