

		Sept. 5th (Mon.)	Sept. 6th (Tue.)	Sept. 7th (Wed.)	Sept. 8th (Thu.)	Sept. 9th (Fri.)
1	9:00-10:30	(1) Introduction	(5) Basic of electrochemistry and modeling of PEFCs(2)	(7) Basic of thermodynamics for hydrogen production	(9) PEFC testing protocols and MEA preparation	(13)Excise / experiments
2	10:45-12:15	(2) Basic of fuel cells	(6) Green hydrogen	(8)Hydrogen production from hydrocarbons	(10) Electrochemical measurements	Closing ceremony
3	13:30-15:00	(3) Fundamentals of electrode processes	Technical tour	lecture of cutting edge (Open)	(11) Heat and mass transprtation	
4	15:15-16:45	(4) Basic of electrochemistry and modeling of PEFCs(1)		Students poster session (Open)	(12) Degradation of PEFCs	
5	17:00-18:30			Reception		

#### Lecture of cutting edge

Dr. Gaetano Squadrito, Fuel cell and hydrogen research activities of CNR-ITAE (tentative)

Prof. Viktor Hacker, Fuel cell reserache activities of TUG (Tentative)

#### Technical tour

I'm asking Research Center for Advanced Science and Technology of JX Nippon Oul & Energy

They have technologies of the 0.75kW PEFC & SOFC system for residential (ENE FARM),

hydrogen station, and others.

(1) Introduction: Prof. Shigenori Mitsushima (Yokohama National University)

(2) Basic of fuel cells: Prof. Viktor Hacker (Graz University of Technology)

(3) Fundamentals of electrode processes: Prof. Bernhard Gollas (Graz University of Technology)

(4) Basic of electrochemistry and modeling of PEFCs(1): Dr. Uwe Reimer (Institute of Energy Research, Juelich)

(5) Basic of electrochemistry and modeling of PEFCs(2) Dr. Uwe Reimer (Institute of Energy Research, Juelich)

(6) Green hydrogen: Ken-ichiro Ota (Yokohama National University)

(7)Basic of thermodynamics for hydrogen production: Prof.Angelo Basile (University of Calabria)

(8)Hydrogen production from hydrocarbons: Prof.Angelo Basile (University of Calabria)

(9) PEFC testing protocols and MEA preparation: Dr. Gaetano Squadrito (CNR-ITAE)

(10) Electrochemical measurements: Prof. Shigenori Mitsushima (Yokohama National University)

(11) Heat and mass transprtation: Prof. Takuto Araki (Yokohama National University)

(12) Degradation of PEFCs: Prof. Viktor Hacker (Graz University of Technology)

(13)Excise / experiments