

11th International Summer School on Advanced Studies of Polymer Electrolyte Fuel Cells (PEFCs)



Date: 21st - 25th August 2018

Place: TU Graz, Inffeldgasse 25/D, 1st floor, Lecture Room i7
Institute of Chemical Engineering and Environmental Technology
8010 Graz, Austria

Organization:
Prof. Viktor Hacker
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Institute of Chemical Engineering & Environmental Technology

	Monday 20.08.2018	Tuesday 21.08.2018	Wednesday 22.08.2018	Thursday 23.08.2018	Friday 24.08.2018	Saturday 25.08.2018	Sunday 26.08.2018
08:00- 08:30							
08:30- 09:30		Registration	Heat and Mass Transport inside PEFC Prof. Takuto Araki	Basics of Electrochemical Measurements Prof. Yoshiyuki Kuroda	Fuel cell applications and market introduction Prof. Shigenori Mitsushima	Closing Ceremony	
09:45 - 10:45		10:00 Welcome Prof. Viktor Hacker	Heat and Mass Transport inside PEFC Prof. Takuto Araki	Impedance Spectroscopy Measurement Techniques Prof. Bernd Eichberger	Thermodynamics for Hydrogen Production Prof. Angelo Basile		
11:00 - 12:00		Principle and technical challenges of PEFCs Prof. Viktor Hacker	Electrocatalyst Preparation Methods Dr. Teko Napporn	Single Cell PEFC Testing: MEA Preparation Gaetano Squadrito	Ultra Pure Hydrogen Production using Pd-based Membrane Reactors Prof. Angelo Basile		
		Lunch Break	Lunch Break	Single Cell PEFC Testing: Testing procedures Gaetano Squadrito	Lunch Break / Group Photo		
13:30- 14:30		Fundamentals of Electrode Processes Prof. Bernhard Gollas	Electrocatalyst Preparation Methods Dr. Teko Napporn	Lunch Break	Environmental Impact Factor for Hydrogen Energy Prof. Ken-Ichiro Ota		
14:45 - 15:45		Modeling of Fuel Cells Dr. Uwe Reimer	Step by Step Determination of the Kinetic Parameters of the ORR on Carbon Supported Nano-Catalysts (1) Prof. Boniface Kokoh	14:30 WORKSHOP Welcome	Selected Degradation Topics & HTPMFC Dr. Merit Bodner	Social Event	
16:00- 17:00		Modeling of Fuel Cells Dr. Uwe Reimer	Step by Step Determination of the Kinetic Parameters of the ORR on Carbon Supported Nano-Catalysts (2) Prof. Boniface Kokoh	Keynotes 16:15 Student Poster Session	Thermodynamics - Exercise Practical Training Prof. Shigenori Mitsushima Prof. Viktor Hacker		
17:00 - 18:00			Carbon Support Corrosion and Membrane Degradation Prof. Viktor Hacker	17:15 Get-together / Catering			
evening		18:30 Graz - Guided Tour: Main Square of the city / Town Hall					