

15th International Summer School on Advanced Studies of Polymer Electrolyte Fuel Cells and Hydrogen

Date: 28 Aug - 2 Sept 2023

Place: Inffeldgasse 25d, 1st floor, lecture room i7
TU Graz, 8010 Graz, Austria
Tel. +43 316 873 8781

Organization:
Prof. Viktor Hacker
Brigitte Hammer, Bakk.
Institute of Chemical Engineering & Environmental Technology



	Monday 28.08.2023	Tuesday 29.08.2023	Wednesday 30.08.2023	Thursday 31.08.2023	Friday 01.09.2023	Saturday 02.09.2023
09:00 - 10:00	Welcome	Fundamentals of electrode processes Bernhard Gollas	Synthesis methods for designing electrocatalysts Têko Napporn	Characterisation of electrocatalysts with X-ray diffraction Aurélien Habrioux	Thermodynamics - Exercise Practical Training	10:30 - 20:00 Social Event
10:15 - 11:15	Principle and technical challenges of PEFCs Viktor Hacker	Modelling of PEFC Uwe Reimer	Determination of kinetic parameters Boniface Kokoh	Measurement techniques Yoshiyuki Kuroda		
11:30 - 12:30	Fuel cell applications and market introduction Shigenori Mitsushima	Mass transport in PEFC Takuto Araki	Carbon materials for energy storage and conversion Boštjan Genorio	PEFC system development Alexander Schenk		
	Lunch Break	Lunch Break	Lunch Break Group Photo	Lunch Break	Closing Ceremony	
14:00 - 15:00	Intercultural Awareness Session Lena Neureiter, Manuel Außerlechner	PEFC testing protocols Gaetano Squadrito	WORKSHOP Welcome Keynotes Gas-diffusion-electrode half-cell testing as new methodology for fast testing of ORR catalysts at technical relevant conditions Prof. Bastian Etzold, TU Darmstadt Caustic Aqueous Phase Electrochemical Reforming (CAPER) for Process Intensified H ₂ Production Prof. Su Ha, Washington State University STUDENT POSTER SESSION	Green hydrogen for our future sustainable growth N.N.		
15:15 - 16:15		Fuel cell lifetime and degradation Merit Bodner		Hydrogen production by water electrolysis Yoshiyuki Kuroda		
16:30 - 17:30		Modelling of fuel cell degradation Tomaž Katrašnik		Thermochemical hydrogen production and purification Sebastian Bock		
17:30 - 18:30			Get-together / Catering			
18:30 - 20:00	Graz - Guided Tour Main Square of the City / Town Hall					