

Hydrogen Research Forum Finland

Wednesday 2nd October | Dipoli, Aalto University

0815	Registration, coffee available	
0845	Opening ceremony Kristiina Mäkelä, Provost, Aalto University Mika Järvinen, Director of Aalto Hydrogen Innovation Center, Professor, Aalto University Pertti Kauranen, Chair, Hydrogen Research Forum Finland, Professor, LUT University	
0900	Keynote presentation	
0930	Session 1: Proton exchange membrane electrolysis	
	Can demand response improve the economic viability of PEM electrolysis dynamic operation?	Hassan Sayed Ahmed, Aalto University
	Operando Characterisation of the Interactions between Hydrogen and Palladium Electrocatalysts	Lilian Moumaneix, Aalto University
	TBC	
1030	Coffee break, 30 minutes	
1100	Session 2: Alkaline electrolysis	
	Stray currents and energy efficiency of atmospheric and pressurized alkaline water electrolyzers	Santeri Pöyhönen, LUT University
	Computational fluid dynamics (CFD) modeling of alkaline electrolyzers in OpenFOAM	Marko Korhonen, VTT Technical Research Centre of Finland
	TBC	
1200	Lunch break, 60 minutes	
1300	Session 3: Poster session, coffee available	
1400	Session 4: Industry session: An exchange between project developers and electrolyzer manufacturers	
	Outi Ervasti, Advisor Innovation Business Platforms, Neste Oyj	
	Nick van Dijk, CEO, Oort Energy Ltd	
	Rainer Kungas, CTO, Stargate Hydrogen	
	Tuukka Hartikka, Vice President, Hydrogen and Power-to-X, Helen	
	Wenzhong Zhang, P2X R&D Manager, Fortum Power and Heat Oy	
1540	Panel discussion	
1620	Programme ends	
1830-2230 Gala dinner in Dipoli		

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Thursday 3rd October | Dipoli, Aalto University

0815	Coffee available	
0845	Keynote: Tanja Kallio, Professor, Aalto University High aspect ratio platinum electrocatalyst for more sustainable hydrogen conversion in PEMELs	
0915	Session 5: Novel electrolysis technologies	
	Efficient industrial grade hydrogen production with SO ₂ depolarized electrolyser	Pragya Narayana Prasad, Aalto University
	Additive manufacturing of reversible ceramic fuel cells for electricity generation and hydrogen production	Muhammad Imran Asghar, Tampere University
	Integrating biomass valorization with hydrogen production: electrocatalytic challenges and opportunities	Daniel Martin-Yerga, University of Jyväskylä
	Study on the effect of Mo on the performance and durability of PGM-free anode catalysts for AEMWE	Sepanta Dokhani, RISE Research Institutes of Sweden / KTH Royal Institute of Technology
1035	Coffee break, 30 minutes	
1105	Session 6: System-level analysis	
	Utilizing large-scale hydrogen storages for Nordic industry	Simo Pekkinen, Aalto University
	Electricity Market Optimization of Electrolysis-Based Hydrogen Production	Onni Tikkanen, Fimpec Consulting Oy
	Baseload hydrogen supply from an Off-Grid Solar PV-Wind Power-Battery-Water electrolyzer plants	Alejandro Ibanez Rioja, LUT University
	Integration of High Capacity Hydrogen and Power-to-X production in the Finnish Energy System	Yrjö Majanne, Tampere University
1230	Event ends	

