

Monday - September 27, 2021	
09:30 – 10:00	<p style="text-align: center;">OPENING SPEECHES</p> <p style="text-align: center;">ANKICA KOVAČ, <i>Founder and Chair</i> FRANO BARBIR, <i>President of Croatian Hydrogen Association</i> JULIJE DOMAC, <i>Special Adviser to the President of the Republic of Croatia for Energy and Climate</i> TOMISLAV ĆORIĆ, <i>Minister of Economy and Sustainable Development</i></p>
	<p style="text-align: center;">PLENARY SESSION 1 Session Chair: Can Ozgur Colpan</p> <p style="text-align: center;">LAURENT ANTONI, <i>President of Hydrogen Europe Research</i> <i>European research activities on Hydrogen and Fuel Cells, considering the next framework programme Horizon Europe and the Clean Hydrogen Joint Undertaking</i></p>
10:00 – 11:00	<p style="text-align: center;">SESSION 1 Hydrogen Production Session Chair: Amela Ajanović</p>
	<p>#1 Application of Magnetic Field in Green Hydrogen Production, <i>Matej Paranos, Mihajlo Firak, Ankica Kovač</i> #2 Hydrogen Evolution Reaction on Pt Nanoparticles Supported on Titanium Oxynitride, <i>Stefan Panić, Marjan Bele, Francisco Ruiz-Zepeda, Luka Pavko, Milutin Smiljanić, Nejc Hodnik</i> #3 MATLAB/Simulink Simulation of Low-Pressure PEM Electrolyzer Stack, <i>Ankica Kovač, Dinko Brezak, Mihajlo Firak</i> #4 One-Dimensional Model of a Membrane Reactor Providing Hydrogen Production from Reformate Gas, <i>Yagmur Nalbant Atak, Can Ozgur Colpan, Adolfo Iulianelli</i> #5 Study and Analysis the Performance of an Integrated Solar Combined Cycle Power Plant, <i>Perica Jukić, Zvonimir Guzović</i></p>
11:05 - 12:45	<p style="text-align: center;">SPECIAL SESSION POWERED BY SIEMENS ENERGY D.O.O. Session Chair: Ankica Kovač</p> <p style="text-align: center;">DAVOR RUBINIĆ <i>Green Hydrogen Production</i> MARKO BABIĆ <i>Selected integrated solution enabling green Hydrogen utilization in industry</i></p>
	<p style="text-align: center;">SPECIAL SESSION POWERED BY SIEMENS ENERGY D.O.O. Session Chair: Ankica Kovač</p> <p style="text-align: center;">DAVOR RUBINIĆ <i>Green Hydrogen Production</i> MARKO BABIĆ <i>Selected integrated solution enabling green Hydrogen utilization in industry</i></p>
12:50 – 13:40	<p style="text-align: center;">SPECIAL SESSION POWERED BY SIEMENS ENERGY D.O.O. Session Chair: Ankica Kovač</p> <p style="text-align: center;">DAVOR RUBINIĆ <i>Green Hydrogen Production</i> MARKO BABIĆ <i>Selected integrated solution enabling green Hydrogen utilization in industry</i></p>



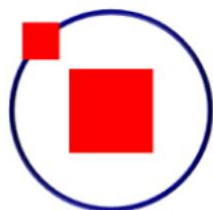
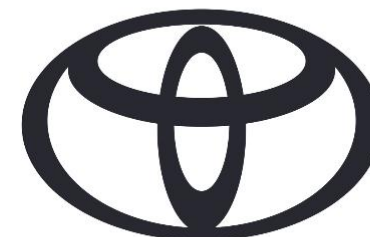
REPUBLIC of CROATIA
Ministry of Economy and
Sustainable Development



University of Zagreb
Faculty of Mechanical Engineering
and Naval Architecture



**CROATIAN
CHAMBER OF
ECONOMY**



CROATIAN HYDROGEN ASSOCIATION



energetika-net.com

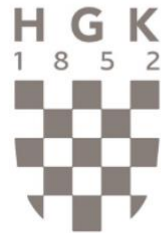
Tuesday - September 28, 2021	
09:30 - 10:15	<p>PLENARY SESSION 2 Session Chair: Ankica Kovač</p> <p>IBRAHIM DINCER <i>The role of clean hydrogen and hydrogen fuels in near future</i></p>
	<p>ROUND TABLE 1 Hydrogen Strategies: Europe and Worldwide Session Chair: Ankica Kovač</p> <p>LAURENT ANTONI, <i>President of Hydrogen Europe Research</i> KREŠIMIR BAGO <i>Director of Toyota Croatia d.o.o.</i> FRANO BARBIR, <i>Professor at University of Split</i> IBRAHIM DINCER, <i>Professor at Ontario Tech. University, Oshawa, Ontario</i> BORIS MILJAVAC, <i>Managing Director of Siemens Energy d.o.o.</i></p>
11:35 - 13:15	<p>SESSION 2 Hydrogen Infrastructure Session Chair: Milutin Smiljanić</p>
	<p>#6 Hybrid PEMFC/Lithium-Ion Battery Propulsion Systems for Zero-Emission Ro-Pax Ferries in Croatia: A Multi-Objective Optimization Approach, <i>Chiara Dall'Armi, Davide Pivetta, Rodolfo Taccani</i></p>
	<p>#7 The Impact of Proton Exchange Membrane Fuel Cell Durability on Life Cycle Assessment Modelling and Environmental Impacts, <i>Nejc Mlakar, Rok Stropnik, Andrej Lotrič, Mihael Sekavčnik, Mitja Mori</i></p>
	<p>#8 Case Study on Spatial Occupancy Assessment of Hydrogen Refueling Station in Croatia, <i>Jakov Šimunović, Ivan Pivac, Frano Barbir</i></p>
	<p>#9 Hydrogen Refueling Station: Overview on the Technological Status and Research Enhancement, <i>Matteo Genovese, Petronilla Fragiaco</i></p> <p>#10 The Economics and the Environmental Benignity of Different Colours of Hydrogen, <i>Amela Ajanovic, Reinhard Haas</i></p>



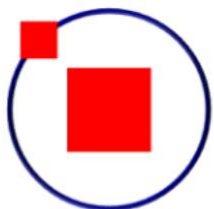
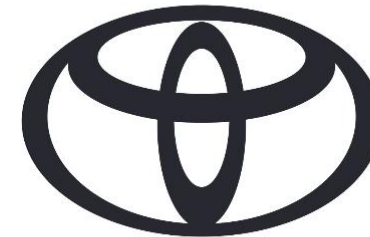
REPUBLIC of CROATIA
Ministry of Economy and
Sustainable Development



University of Zagreb
Faculty of Mechanical Engineering
and Naval Architecture



**CROATIAN
CHAMBER OF
ECONOMY**



CROATIAN HYDROGEN ASSOCIATION



energetika-net.com

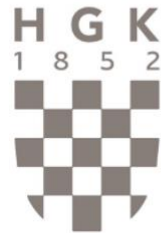
Wednesday - September 29, 2021	
09:30 – 09:40	<p style="text-align: center;">INTRODUCTORY SPEECH</p> <p style="text-align: center;">ANKICA KOVAČ, <i>University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture</i></p>
	<p style="text-align: center;">ROUND TABLE 2 Note: in Croatian</p> <p style="text-align: center;">Discussion on Croatian Hydrogen Strategy Session Chair: Vjekoslav Jukić, Ministry of Economy and Sustainable Development</p> <p style="text-align: center;">IVAN ANDROČEĆ, <i>National Electricity Company, HEP d.d.</i> DRAŽEN ANTOLOVIĆ, <i>Ministry of the Sea, Transport, and Infrastructure</i> MARIJA BAKETARIĆ, <i>Croatian Hydrocarbon Agency</i> FRANO BARBIR, <i>University of Split Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture</i> ROBERT BOŠNJAK, <i>Plinacro – Gas Transmission System Operator</i> ROBERT FABEK, <i>Energy Institute Hrvoje Požar</i> PETAR SPRČIĆ, <i>National Electricity Company, HEP d.d.</i></p>
09:45 - 11:15	<p style="text-align: center;">SESSION 3</p> <p style="text-align: center;">Hydrogen Storage and Transportation Session Chair: Chiara Dall'Armi</p> <p>#11 Green Hydrogen Project in INA, <i>Bernard Suknjov, Vesna Kučan-Polak, Kristina Marić</i></p> <p>#12 Electrochemical Hydrogen Compressor: Recent Progress and Challenges, <i>Doria Marciuš, Ankica Kovač, Mihajlo Firak</i></p> <p>#13 GCMC Hydrogen Storage on Schwarzites and Slit-shaped Pores at Room Temperature, <i>Maria López, M.B. Torres, Ivan Cabria</i></p> <p>#14 Trade-offs Study between Risk and Benefit in Safety Device of Hydrogen Refueling Stations by Using a Dynamic Physical Model, <i>Kawatsu Kaname, Tomoya Suzuki, Kento Shiota, Yu-ichiro Izato, Masahiro Komori, Koichi Sato, Yasuyuki Takai, Takayuki Ninomiya, Atsumi Miyake</i></p> <p>#15 Quantitative Risk Assessment of Hydrogen Refueling Stations by Using a Dynamic Physical Model, <i>Tomoya Suzuki, Kawatsu Kaname, Kento Shiota, Yu-ichiro Izato, Masahiro Komori, Koichi Sato, Yasuyuki Takai, Takayuki Ninomiya, Atsumi Miyake</i></p> <p>#16 Blending of hydrogen into natural gas distribution network – A Review, <i>Adriana Bejić, Ankica Kovač</i></p>
	<p>11:20 – 13:20</p>



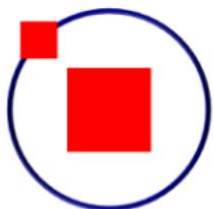
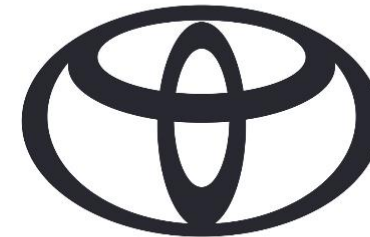
REPUBLIC of CROATIA
Ministry of Economy and
Sustainable Development



University of Zagreb
Faculty of Mechanical Engineering
and Naval Architecture



**CROATIAN
CHAMBER OF
ECONOMY**



CROATIAN HYDROGEN ASSOCIATION



energetika-net.com