



UNIVERZA V LJUBLJANI  
University of Ljubljana



## Powering the Next Generation of Heavy-Duty Vehicles

Place: Faculty of Mechanical Engineering, University of Ljubljana

Teams Link: [Workshop](#)

Date: Wednesday, 04 June 2025

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|-------|--|
| 08:30 | REGISTRATION   |
| 09:00 | Welcome  |
| 09:30 | Introduction to the workshop   |
| 09:45 | <b>SoX observers for PEMFCs</b><br>Prof. Andraž Kravos, University of Ljubljana, Slovenia  |
| 10:10 | <b>Hydrogen in Industrial Sector Coupling</b><br>Blaž Likozar, National institute of chemistry, Slovenija  |
| 10:30 | <b>Fuel cell and electrolyzer system simulation solution for mobility and industrial green energy applications</b><br>Dr. Reinhard Tatschl, Dr. Ivo Prah, AVL LIST GMBH, Graz, Austria   |
| 10:50 | <b>Ion pair membranes for HT-PEMFC</b><br>Dr. Vladimir Atanasov, University of Stuttgart, Germany  |
| 11:10 | <b>Overview of the hydrogen technologies related activities at JSI</b><br>Gregor Dolanc, Jožef Stefan Institute, Slovenija   |
| 11:30 | BREAK  |
| 12:00 | <b>Last results from the PENTASTIC project</b><br>Pawel Gazdzicki, PENTASTIC project coordinator   |
| 12:30 | <b>North Adriatic Hydrogen Valley</b><br>Jerneja Sedlar, Holding Slovenske elektrarne, Slovenija   |
| 12:50 | <b>Advanced Electrochemical Characterization of PEM Fuel Cell Catalysts with Emphasis on Stability</b><br>Nejc Hodnik, National institute of chemistry, Slovenija                        |
| 13:10 | <b>Black powder at the 'heart' of the hydrogen technologies</b><br>Matija Gatalo, Recatalyst, Slovenija  |
| 13:30 | <b>Advanced methods for degradation detection in fuel cells</b><br>Prof. Merit Bodner, TU Graz, Austria  |
| 14:00 | <b>"Concept of a Portable Heat-Integrated System Combining a High-Temperature PEM Fuel Cell Stack and a Methanol Steam Reformer"</b><br>Andrej Lotrič, University of Ljubljana, Slovenia |
| 14:20 | <b>Expert Panel: Hydrogen - Thresholds to Overcome</b><br>Moderated by Dr. Nikolaos Theodoropoulos   |
| 14:50 | Networking Lunch   |
| 16:00 | END  |



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