

Research and Development of Hydrogen Energy System in Conjunction with Renewable Energy Sources

Monday, 15.02.2016.
Room C-501

10:00	Sven Gotovac , Dean or Sandro Nižetić , vice-Dean for Science – Welcome
10:05	Frano Barbir , FESB – Introduction, about the project
10:15	Frano Barbir , FESB - Role of hydrogen in a future energy system based on renewable energy sources
10:30	Ivan Cvrk , Končar Institut za elektrotehniku – Electrolysis as a part of Končar-Hybrid Box - techno-economic analysis
10:45	Bakir Đonlagić , Končar Institut za elektrotehniku – Project of building the laboratory for renewable energy at Končar Institute for Electrical Engineering
11:00	Danijel Bagarić , FESB – Equipping the laboratory for new energy technologies at FESB
11:15	Jakov Šimunović – Simulation of autonomous hydrogen energy system in conjunction with renewable energy sources
11:30	Coffee Break
12:00	Domina Cikatić Šanić – Simulation of autonomous microcogeneration system with fuel cells
12:15	Vicenzo Ortisi , Pure Energy, UK – Development of renewable hydrogen projects
12:30	Pomak – Process control, supervision and communication in industry
12:45	Ankica Đukić , FSB Zagreb, – Technologies for hydrogen generation and use – activities at Power engineering lab, FSB Zagreb
13:00	Dario Bezmalinović/Frano Barbir , FESB – Characterization and diagnostics of PEM fuel cells degradation
13:15	Ivan Pivac , FESB – New equivalent circuit model for characterization of PEM fuel cells
13:30	Lunch
14:30	Visit to laboratory
15:10	Ivan Tolj , FESB – Concept of variable temperature along the cathode channel in PEM fuel cell
15:30	Tomaž Katrašnik , Fakulteta za strojništvo, Ljubljana - A real-time capable hybrid 3D analytic-numerical approach for system level modeling of PEM fuel cells
15:45	Reinhard Tatschl , AVL Graz – 3D-CFD and system modeling of PEM fuel cells
16:00	Frano Barbir , FESB – Closing remarks



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