

LATVIAN HYDROGEN ASSOCIATION 2010



Board:

Dr. Janis Kleperis,
Academician, Dr.hab. Juris Ekmanis,
Trained lawyer Andris Bunka,
Private businessman Uģis Tabors

Participants:

Latvian Academy of Sciences (LAS),
Institute of Physical Energetics (IPE),
Institute of Solid State Physics of University of Latvia (ISSP UL),
Institute of Industrial Electronics and Electrical Technologies of
Riga Technical University (IIEET RTU),
Ltd. “Hydro Energo”; Ltd. „Hydrogen Power Development“,
Uģis Tabors, Andris Bunka, Jānis Kleperis

1 Akademijas Square,
Riga, LV-1050,
Latvia

www.lathydrogen.lv



Hydrogen – related ongoing projects

Project	Institution, supervisor	Year
National Research Program “Energy and Environment”, Project No.4 “Research of methods for hydrogen production, storage and energy release, and development of prototypes for application in national economy”	LAS, ISSP UL Janis Kleperis	2010-2013
National Research Program “Energy and Environment”, Project No.6 “Analysis, development and optimization of power transformers for renewable and hydrogen energy technologies”	LAS, IIEET RTU Leonids Ribickis	2010-2013
Grant from Latvian Council of Science No. 09.1195 “Research and development of proton conducting PEEK polymer and composite membranes and catalysts for use in direct methanol and hydrogen fuel cells”	ISSP UL Guntars, Vaivars, Janis Kleperis	2010-2012
Grant from Latvian Council of Science No. 09.1192 “Research of properties and structure of nanosize composite materials for hydrogen storage and electrodes for water electrolysis”	ISSP UL Liga Grinberga	2010-2012
Grant from Investment and Development Agency of Latvia “Development and pilot-project implementation on eco-effective transport system in Latvia”	Ltd “Hydrogen Power Development” Imants Dirba	2009-2010
Grant from Riga City Council and SwedBank “Hydrogen based heater for vehicle salon and engine”	Ltd “CellTech” Modris Megnis	2010
Grant from Student Council of University of Latvia “Comparative Study of bio-hydrogen production and storage methods”	Faculty of Biology of University of Latvia Ilze Klepere	2010

Hydrogen – related planned projects (submitted)

Project	Institution, supervisor	Year
Application to the European regional development fund “New technology to produce and separate hydrogen in anaerobic fermentation process”	Biomechanics and Physical Research Institute, Guntars Vaivars	2011-2013
Application to the European regional development fund “Stand- alone energy supply system up to 10kW using hydrogen for energy storage”	Riga Technical University, Leonids Ribickis	2011-2013

Latvia participated in IPHE Global School Student Competition “Fuel Cell and Hydrogen Technology” (2009-2010). There were applications from 7 teams presenting different schools in Latvia, from which the winner was team from Riga School of Nordic Languages”: Armands Ikaunieks, Lauris Ozolins and Martins Melkis with teacher Ieva Rodzina. Their project: “Usage of Fuel Cell in Vehicle” was recognized as original and interesting with electrolysis device integrated in car. Their visited 10th World Hydrogen Congress in Essen (Germany) this year and presented prototype car:

