

FCH JU Programme Review Day 2011

22nd of November 2011, Charlemagne building, Brussels

08:00 – 08:30 **Registration**

08:30 – 09:00 **Welcome, concept and objectives by Jean-Luc Delplancke, Head of Programme FCH JU**
Room Alcide de Gasperi – Floor 2

09:00 – 13:15 **Parallel Sessions**

	Room Alcide de Gasperi (GASP)- Floor 2	Room Jean Durieux (DURI)- Floor 1	Room Sicco Mansholt (MANS)- Floor 0	Room Lord Jenkins (JENK)- Floor 0
	Demonstration activities in road transport <i>Moderators: Carlos Navas, Joerg Wind</i>	Fuel Cells degradation aspects <i>Moderators: Mirela Atanasiu, Lenaic Georgelin</i>	Sustainable Hydrogen production <i>Moderators: Eveline Weidner, Joaquin Martin Bermejo</i>	New materials and stacks for FC applications <i>Moderators: Jean-Luc Delplancke, Guillaume Leduc</i>
09 :00	H2moves , H2 Moves Scandinavia <i>Ulrich Buenger, LBST, Germany</i>	DECODE , degradation mechanisms to improve components and design of PEFC <i>Andreas Friedrich, DLR, Germany</i>	NanoPEC , nanostructured photoelectrodes for energy conversion <i>Michael Graetzel, EPFL, Switzerland</i>	RAMSES , Robust Advanced Materials for Metal Supported SOFC <i>Julie Mouglin, CEA, France</i>
09 :30	CHIC , Clean Hydrogen in European Cities <i>Monika Kentzler, Daimler, Germany</i>	MCFC-CONTEX , Molten Carbonate Fuel Cell catalyst and stack component degradation and lifetime: Fuel Gas contaminant effects and extraction strategies <i>Angelo Moreno, ENEA, Italy</i>	SOLHYDROMICS , nanodesigned electrochemical converter of solar energy into H2 hosting natural enzymes or their mimics <i>Guido Saracco, Polytechnics of Turin, Italy</i>	PEMICAN , PEM with Innovative low cost Core for Automotive application <i>Joel Pauchet, CEA, France</i>
10 :00	Autostack , automotive fuel cells stack cluster initiative for Europe <i>Dr Ludwig Joerissen, ZSW, Baden-Wuerttemberg, Germany</i>	ROBANODE , Understanding and minimizing anode degradation in hydrogen and natural gas fuelled SOFCs. <i>Dimitris Niakolas, FORTH, Greece</i>	HYCYCLES , materials and components for hydrogen production by sulphur based thermochemical cycles <i>Martin Roeb, DLR, Germany</i>	Maestro , MembrAnEs for Stationary applications with RObund mechanical properties <i>Deborah Jones, CNRS, France</i>
10 :30		KEPEMALIVE , Enhance the Endurance of PEM fuel cells by accelerated lifetime verification <i>Steffen Moller-Holst, SINTEF, Norway</i>	HYDROSOL-3D , Scale up of thermochemical hydrogen production in a solar monolithic reactor: a 3 rd generation design study <i>Christos Agrifiotis, CERTH, Greece</i>	SCOTAS-SOFC , Sulphur, Carbon, and re-Oxidation Tolerant Anodes for Solid Oxide Fuel Cells <i>Peter Holtappels, Technical University Denmark</i>

11:00 – 11:15 **Coffee Break**

	Early Market demo for materials handling vehicles	Fuel Cells degradation aspects (cont)	Hydrogen production and storage activities	New materials for FC applications
	<i>Moderators: Enrique Giron, Ralph-Uwe Dietrich</i>	<i>Moderators: Mirela Atanasiu, Angelo Moreno</i>	<i>Moderators: Carlos Saraiva Martins, Luis Correias</i>	<i>Moderators: Jean-Luc Delplancke, Lenaic Georgelin</i>
11:15	SHEL , Sustainable Hydrogen Evaluation in Logistics <i>Oscar Miguel, Cidetec, Spain</i>	DEMMEA , degradation mechanisms of MEA for high temperature PEM <i>Stylianos Neophytides, FORTH, Greece</i>	NANOHY , novel nano-composites for hydrogen storage applications <i>Maximilian Fichtner, KIT, Germany</i>	SMALLINONE , smart membrane for hydrogen energy conversion: all fuel cell functionalities in one material <i>Jessica Théry, CEA, France</i>
11:45	MobyPost , MOBILITY WITH HYDROGEN FOR POSTAL DELIVERY <i>Nathalie Oriol, Institute Pierre Vernier, France</i>	PREMIUM ACT , Predictive modelling for Innovative Unit Management and accelerated Testing procedures of PEFC <i>Sylvie Escribano, CEA, France</i>	FLYHY , Fluorine substituted high capacity hybrids for hydrogen storage at low working temperatures <i>Klaus Taube, GKSS, Germany</i>	EFFIPRO , efficient and robust fuel cell with novel ceramic proton conducting electrolyte <i>Truls Nornny, University of Oslo, Chemistry department Norway</i>
12:15	HyLIFT-DEMO , European demonstration of hydrogen powered fuel cell forklifts <i>Hubert Landinger, LBST, Germany</i>	LOLIPEM , Long-life PEM-FCH & CHP systems at temperatures $\geq 100^{\circ}\text{C}$ <i>Giuseppe Barbieri, CNR, Italy</i>	SSH2S , Fuel cell coupled solid state hydrogen storage tank <i>Marcello Baricco, University of Turin, Italy</i>	SOFC-LIFE , Solid Oxide Fuel Cells –Degradation Effects into Lifetime Prediction Models <i>Robert Steinberger-Wilckens, FZJ, Germany</i>
12:45		STAYERS , Stationary PEM fuel cells with lifetimes beyond five years <i>Martijn Mulder, Nedstack, Netherlands</i>	RELHY innovative solid oxide electrolyser stacks for efficient and reliable hydrogen production <i>Florence Lefebvre-Joud, CEA, France</i>	

13:15 – 14:30 **Lunch Break**

14:30 – 18:15 Parallel Sessions (cont)

	Room Alcide de Gasperi (GASP)- Floor 2	Room Jean Durieux (DURI)- Floor 1	Room Sicco Mansholt (MANS)- Floor 0	Room Lord Jenkins (JENK)- Floor 0
	Portable and back-up power applications	New electrolyzers for Hydrogen production	Stationary applications proof-of-concepts and System components development	New materials and stacks for FC applications
	<i>Moderators: Enrique Giron, Mikael Sloth</i>	<i>Moderators: Eveline Weidner, Luis Correas</i>	<i>Moderators: Mirela Atanasiu, Helge Holm-Larsen</i>	<i>Moderators: Carlos Saraiva Martins, Lenaic Georgelin</i>
14:30	ISH2SUP , In situ H2 supply technology for micro fuel cells <i>Aarne Halme, Aalto University, Finland</i>	WELTEMP , water electrolysis at elevated temperatures <i>Erik Christensen, Technical University, Denmark</i>	LOTUS , Low temperature Solid Oxide Fuel Cells for micro-CHP applications <i>Ellart de Wit, Hygear, Netherlands</i>	IDEAL- Cell , innovative dual membrane fuel cell <i>Alain Thorel, Armines, France</i>
15:00	IRAFC , Development of an Internal Reforming Alcohol High Temperature PEM Fuel Cell Stack <i>Ioannis Kallitsis, University of Patras, Greece</i>	Primolyzer , Pressurised PEM Electrolyzer stack <i>Laila Grahl-Maden, IRD, Denmark</i>	ASTERIX3 , assessment of SOFC CHP systems build on the technology of htceRamIX 3 <i>Per Baslev, Dantherm, Denmark</i>	ZECELL , nanostructured electrolyte membranes based on polymer-ionic liquids zeolite composites for high temperature PEM fuel cell <i>Pilar Pina, University of Zaragoza, Spain</i>
15:30	FITUP , Fuel cell field test demonstration of economic and environmental viability for portable generators, backup and UPS power system applications <i>Illaria Rosso, ElectroPS, Italy</i>	NEXPEL , Next-Generation PEM Electrolyser for Sustainable Hydrogen Production <i>Magnus Thomassen, Sintef, Norway</i>	ASSENT , Anode Sub-System Development & Optimisation for SOFC systems <i>Jari Kiviahio, VTT, Finland</i>	METSOFC , development of next generation metal based SOFC stack technology <i>Niels Christiansen, Topsoe Fuel Cell, Denmark</i>
16:00	NH34PWR , ammonia based fuel cells power for off-grid cell phone towers <i>Amanda Willox, Diverse Energy, United Kingdom</i>	ADEL , Advanced Electrolyser for Hydrogen Production with Renewable Energy Sources <i>Olivier Bucheli, HT Ceramix, Switzerland</i>	CATION , Cathode Subsystem Development and Optimisation <i>Jari Kiviahio, VTT, Finland</i>	QUASIDRY , quasi-anhydrous and dry membranes for next generation fuel cell <i>Deborah Jones, CNRS, France</i>

16:30 – 16:45 **Coffee Break**

	Training and regulatory aspects	Socio-economic and benchmarking activities	Operation diagnostics tools for stationary applications	Pre-normative research & Life cycle assessment activities
	<i>Moderators: Guillaume Leduc, Steffen Moller-Holst</i>	<i>Moderators: Enrique Giron, Joerg Wind</i>	<i>Moderators: Helge Holm-Larsen, Angelo Moreno</i>	<i>Moderators: Carlos Navas, Joaquin Martin Bermejo</i>
16:45	TrainHy-Prof , Building Training Programmes for Young Professionals in the Hydrogen and Fuel Cell Field <i>Robert Steinberger-Wilckens, FZI, Germany</i>	Prepar-H2 , Preparing socio and economic evaluations of future H2 lighthouse projects <i>Jón Skulason, New Energy, Iceland</i>	GENIUS , generic diagnosis Instrument for SOFC Systems <i>Philippe Mocoteguy, European Institute for Energy Research, Germany</i>	HyQ , Hydrogen fuel Quality for transportation and other energy applications <i>Pierre-André Jacques, CEA, France</i>
17:15	HYPROFESSIONALS , Development of educational programs and training related to hydrogen technologies and fuel cells in Europe <i>Luis Correas, Hydrogen Aragon, Spain</i>	NextHyLights , Supporting action to prepare large-scale hydrogen vehicle demonstration in Europe <i>Hubert Landinger, LBST, Germany</i>	D-CODE , DC/DC Converter-based Diagnostics for PEM systems <i>Cesare Pianese, University of Salerno, Italy</i>	HyCOMP , Enhanced Design Requirements and Testing Procedures for Composite Cylinders intended for the Safe Storage of Hydrogen <i>Clemence Devilliers, Air Liquide, France</i>
17:45	HyFacts , Identification and Dissemination of Hydrogen Safety facts to regulators and public safety officials <i>Frédéric Barth, Air Liquide Hydrogen Energy, France</i>	FC-EUROGRID , Evaluating the Performance of Fuel Cells in European Energy Supply Grids <i>Robert Steinberger-Wilckens, FZI, Germany</i>	DESIGN , Degradation Signatures identification for stack operation diagnostics <i>Florence Lefebvre-Joud, CEA Grenoble, France</i>	FC_Hy Guide , guidance document for performing LCA's on hydrogen and fuel cell technologies <i>Oliver Schuller, PE international AG and Angelo Moreno, ENEA, Italy</i>

18:30 – 19:00 **Closing Session by Knut Harg, Chair of the Scientific Committee of the FCH JU**

- Room Alcide de Gasperi – Floor 2

19:00 **Official Dinner**