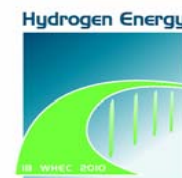


18. WHEC Essen 2010



Name of author	Nation	Company / Institute	Title of poster contribution
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FC - Fuel Cell Basics

FC.1 - Electrochemistry of PEM Fuel Cells

Bergmann, Arno	D	Fraunhofer Institute - ISE	Poster: Spatially resolved impedancespectroscopy in PEM fuel cells up to 200°C
Nakashima, Kohei	JP	Meijo University	Poster: Evaluation of Power Performance of Small Free-Breathing Polymer Electrolyte Fuel Cells
Nakashima, Kohei	JP	Meijo University	Poster: Power Performance of Small Polymer Electrolyte Fuel Cells under Various Humidification Conditions
Mindt, Hans-Wilfried	D	ESI Engineering System International GmbH	Poster: Computational Modeling of Carbon Corrosion in PEM Fuel cells
Prof. Dr.Bettermann, Hans	D	Heinrich Heine Universität Düsseldorf	Poster: On-line in-situ diagnostics of processes within PEM fuel cells by the application of Raman fibre techniques

FC.2 - PEM/ HT-PEM Fuel Cells: Electrolytes, Stack Components

Al-Saleh, Feras	D	Volkswagen AG Gräbener Maschinentechnik GmbH & Co. KG	Poster: Air Management for Low Temperature Fuel Cell Systems
Edelmann, Achim	D		Poster: Economic production of metallic separator plate units
Conradi, Oliver	D	3M Deutschland GmbH Zentrum für Brennstoffzellen	Poster: Characterization of Composite Membranes for Fuel Cell Applications: Challenges in Translating Ex-situ Properties into In-situ Performance
Grundler, Marco	D	Technik GmbH	Poster: CarbonNanoTubes (CNT) in bipolar plates for PEM fuel cell applications
Dr.Eroglu, Inci	TR	Middle East Technical University	Poster: Preparation and Characterization of Nafion/Titanium Dioxide Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells
Chang, Min-Hsing	TW	Tatung University Hydrogen and Gas Sensors	Poster: A membraneless hydrogen/air fuel cell with a liquid electrolyte
Hodakovska, Julija	LV	Laboratory	Poster: Multiplayered proton-electron conductive polymer membrane for fuel cells
Dr.Pasupathi, Sivakumar	ZA	University of the Western Cape	Poster: Validation of a 0.5 kW HTPEMFC stack for CHP applications
Kurz, Timo	D	Fraunhofer Institute - ISE	Poster: A compact HTPEM fuel cell module with open cathode for portable applications

Varfolomeeva, Julia	D	University of Freiburg	Poster: Optimization of thermal management in high temperature fuel cells
Kurz, Timo	D	Fraunhofer Institute - ISE	Poster: Using silicon as bipolar plate material in high temperature PEM fuel cells
Greda, Martin	D	Fachhochschule Gelsenkirchen	Poster: Modular PEM Fuel Cell System
Rezaei, Majid	IR	Isfahan subsea R&D institute	Poster: Soft Switching PWM Isolated Boost Converter for Fuel cell Application
Dr.Eroglu, Inci	TR	Middle East Technical University	Poster: High Temperature Proton Exchange Membrane Fuel Cells
Misz, Ulrich	D	Zentrum für Brennstoffzellen Technik GmbH	Poster: Analysis of the influence of a cathode air filter for traffic-related gaseous and particulate contaminants on PEMFC
Dr.Lin, Rui	CN	Tongji University	Poster: Improvement the stability of fuel cell system by controlling the water management of PEM fuel cell

FC.3 - Direct Fuel Cells

Schröder, Alexander	D	Forschungszentrum Jülich	Poster: Combined local current distribution measurements and high resolution neutron radiography of operating Direct Methanol Fuel Cells
Dr.Peck, Dong-Hyun	KR	Korea Institute of Energy Research	Poster: Durability of a MEA prepared with PFA-g-PSSA membrane for direct methanol fuel cell

FC.4 - High-Temperature Fuel Cells

Courtin, Emilie	FR	CEA	Poster: Sol Gel process for preparing anode supported YSZ electrolyte
Ilhan, Nilüfer	TR	TUBITAK-MAM-GMBE	Poster: Preliminary Results of the High Surface Area Electrode/Electrolyte Interface for Improved Performance and Durability of Solid Oxide Fuel Cells (SOFC) Project
Boaventura, Jaime	BR	Universidade Federal de Bahia	Poster: Low-carbon formation electrocatalysts for hydrogen production from ethanol for use as SOFC anodes
Dr.Günen, Evren	TR	TUBITAK-MAM-GMBE	Poster: Preliminary Results of the High Surface Area Electrode/Electrolyte Interface for Improved Performance and Durability of Solid Oxide Fuel Cells (SOFC) Project

FC.5 - Advanced Modelling

Al-Saleh, Feras	D	Volkswagen AG ESI Engineering System International GmbH	Poster: Analysis and Comparison of Different PEM-Fuel Cell System Variations
Mindt, Hans-Wilfried	D		Poster: A Two-Fluid Model for Water Transport in a PEM Fuel Cell
Fofana, Daouda	CA	Université de Québec à Trois-Rivières	Poster: Dynamic Modeling of the Water Balance in the Cathode Gas Diffusion Layer of Polymer Electrolyte Fuel Cells
Martinez, Graciano	ES	INTA Renewable Energy	Poster: Transys simulation of a remote Telecom Application (Hidrosolar_H2) fed by PV Panels and H2 Production and Storage

HI - Fuel Infrastructures

HI.1 - Hydrogen Distribution Technologies

Macron, Jonathan	FR	AIR LIQUIDE S.A.	Poster: Advances in hydrogen refueling stations
Sakaguchi, Junichi	JP	Chiyoda Corporation R&D Center	Poster: Global Vision of Hydrogen Supply Chain with Hydrogen Storage and Transportation system by Organic Chemical Hydride Method
Dr.Ichikawa, Takayuki	JP	Hiroshima University	Poster: Chemical Hydrogen Compression by MH-NH3 system
Iskov, Henrik	DK	Danish Gastechnology Centre	Poster: Field Test of hydrogen in the natural gas grid
Aso Aguarta, Ismael	ES	Fha Parque Tecnológico Walqa	Poster: Aragon Hydrogen Foundation filling station
Jermer, Boris	D	HyCologne Wasserstoff Region Rheinland e.V.	Poster: Enabling the Hydrogen Infrastructure - Waste Hydrogen Utilization in Northern-Rhine-Westphalia

HI.2 - Hydrogen Deployment

Dr.Weeda, Marcel	NL	European Commission Institute for Energy Research Center	Poster: Integrated Simulation of Hydrogen Car Penetration and the Roll-out of a Hydrogen Refuelling Infrastructure in the Commercialisation Phase: A Case Study for the Netherlands
Hustadt, Daniel	D	Vattenfall Europe Contracting GmbH	Poster: Hydrogen Refueling Station Hamburg HafenCity

HI.3 - Fuel Provision for Early Market Applications

Dr.Iordache, Ioan	RO	ICSI Rm Valcea	Poster: Revamping of existent chlor-alkali plants for conversion of hydrogen to electricity, Hydrogen Community germination step
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HP - Hydrogen Production Technologies

HP.1a - Photobiological Hydrogen Production

Prof.Lee, Chi Mei	TW	National Chung Hsing University	Poster: Photohydrogen production from thermophilic aerobic digestion effluent and distillery wastewater by photosynthetic bacterium Rhodospseudomonas palustris WP 3-5
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Continuous photo-H2 production from acetate with using Rhodospseudomonas palustris WP 3-5
Chen, Pei-Chung	TW	Hung-Kuang University	Poster: Hydrogen Production by Anabaena sp. CH1 with Two-stage Process
Yeh, Kuei-Ling	TW	National Chung Cheng University Departm	Poster: Continuous photo-hydrogen production from acetate using Rhodospseudomonas palustris WP 3-5
Sevinç, Pelin	TR	Middle East Technical University	Poster: The Effect of Temperature and Light Intensity on Hydrogen Production by Rhodobacter capsulatus
Tamburic, Bojan	UK	Imperial College London	Poster: An experimental study of the growth and hydrogen production of C.Reinhardtii
Lehr, Florian	D	Karlsruhe Institute of Technology	Poster: Photobiotechnological Hydrogen Production with Microalgae

Dr.Plummer, Scott	US	H2OPE Biofuels, LLC	Poster: Hydrogen Production Using Photosynthetic Algae and Improved Hydrogenases
Dr.Öztürk, Yavuz	TR	TUBITAK-MAM-GMBE	Poster: Improving the Hydrogen Production Capacity of Rhodobacter capsulatus by Genetically Modifying Redox Balancing Pathways
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Immobilization technique of Rhodobacter sphaeroides O.U. 001 in hydrogen generation

HP.1b - Fermentative Hydrogen Production

Dr.Lee, Dong-Yeol	JP	National Institute for Environmental Studies	Poster: Influence of sludge recycles on the continuous hydrogen and methane fermentation from food waste
Zheng, Hang	AU	University of Queensland	Poster: A high yield, hydrogen producing, bacterial community enriched from anaerobic digester leachate
Dr.Chen, Chun-Yen	TW	National Cheng Kung University	Poster: Biohydrogen production from combined dark-photo fermentation under a high ammonia content in the dark fermentation effluent
Hafez, Hisham	US	University of Western Ontario	Poster: A novel biological hydrogen production system: impact of organic loading
Anzola Rojas, Mélida del Pilar	BR	Universidade de São Paulo	Poster: Influence of the Carbon/Nitrogen ratio on the hydrogen production in a fixed-bed anaerobic reactor
Dr.Amorim, Eduardo	BR	University of São Paulo	Poster: Effect of alkalinity and organic loading rate in the fermentative H ₂ production from an anaerobic fluidized bed reactor
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Hydrogen generation from waste glycerol in dark fermentation process
Dr.Kengen, Servé	NL	Wageningen University Laboratory of Microbiology	Poster: Systems Biology of Caldicellulosiruptor saccharolyticus: Reconstructing the metabolic network leading to hydrogen
Hayashi, Hiroki	JP	Yokohama National University	Poster: Improvement of hydrogen yield of Clostridium butyricum by metabolic engineering
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Biohydrogen production from combined dark-photo fermentation under a high ammonia content in the dark fermentation effluent
Bai, Ming-Der	TW	Industrial Technology Research Institute Energy & Resource Lab.	Poster: A Pilot Study of Nitrogen Composition and Effect on Biohydrogen
Dewaki, Masayuki	JP	Yokohama National University	Poster: Enhancement of hydrogen yield from glucose by disrupting NADH: Ubiquinone Oxidoreductase of Enterobacter aerogenes
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Using biomass of starch-rich transgenic Arabidopsis vacuolar as feedstock for fermentative hydrogen production
Rocha Barros, Aruana	BR	Federal University of Sao Carlos	Poster: Biohydrogen production with anaerobic sludge using granulated tire supported fluidized bed reactor
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Optimizing fermentation conditions for biohydrogen production with Clostridium butyricum CGS2 using statistical experimental design
Murugesan, Ganesan	IN	Manonmaniam Sundaranar University	Poster: Sequential evolution of bio-hydrogen from rubber industrial effluent and its microbial interaction to fermentation kinetics

Cheng, Sheng-Shung	TW	National Cheng Kung University	Poster: Biochemical Hydrogen Potential Assessment with Anaerobic Batch Biodegradation of Organic Leachate from Aerobic Bio-leaching Bed Feeding Kitchen Waste and Napier Grass
Dr.Yasuda, Keigo	JP	Yokohama National University	Poster: Continuous Hydrogen Production from starch by Fermentation

HP.2 - Thermochemical Cycles

Dr.Dincer, Ibrahim	CA	University of Ontario	Poster: Exergoeconomic Analysis of a Copper-Chlorine Thermochemical Cycle for Nuclear-Based Hydrogen Production
Burghardt, Heike	D	DLR	Poster: Two-step water splitting by cerium oxide-based redox pairs
Liberatore, Raffaele	IT	ENEA	Poster: Chemical characterization of sulphur-iodine thermochemical cycle flowstreams by Raman spectroscopy
Taylor, Robin	US	Science Applications International Corp.	Poster: Solar Field Optimization for Photocatalytic and Electrolytic Thermochemical Hydrogen Production System for Splitting Water
Dr.Elder, Rachael	UK	University of Sheffield	Poster: Low Temperature Separations in the Sulphuric Acid Decomposition Stage of the Sulphur Iodine and Hybrid Sulphur Thermochemical Water Splitting Cycles
Dr.Giaconia, Alberto	IT	ENEA	Poster: Analysis and Development of the Bunsen Section in the Sulfur-Iodine Process
Balta, M. Tolga	TR	Ege Universitesi	Poster: Thermodynamic performance comparison of some renewable and no-renewable hydrogen production processes
Dr.Elder, Rachael	UK	University of Sheffield	Poster: Improving Sulphur Dioxide Yield in the Sulphuric Acid Thermal Decomposition Process through the Application of High Temperature Ceramic Membrane Separations
Dr.Schmitz, Mark	D	Fachhochschule Aachen	Poster: Methanol from CO2 and solar energy - A Literature Review
Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: Effect of impurities of the solid on the subsequent hydrogen release in "Steam-Iron process"
Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: "Steam-Iron" process for hydrogen production: recent advances

HP.3a - Hydrogen from Renewable Electricity

Aiche Hamane, Lilia	DZ	Centre de développement des Energies Renouvelables Bouzaréah	Poster: Study of hydrogen production from wind power in Algeria
Dr.Chiba, Seiki	JP	SRI International Adivanced R&D	Poster: Novel Electric Generators Using Electroactive Polymer Artificial Muscle (EPAM)
Dr.Andrews, John	AU	RMIT University School of Aerospace, Mechanical and Manufacturing Engineering	Poster: An integrated wave-power hydrogen-energy system for transport and stationary applications

Ilhan, Nilüfer	TR	TUBITAK-MAM-GMBE	Poster: HYDEPARK, A Standalone Renewable Hydrogen Demonstration Park in Turkey
Weißer, Martin	D	WIND-projekt	Poster: RH2-WKA - Making wind energy a steady power source
Rey Porto, Milagros	ES	Gas Natural SDG	Poster: Analysis of Wind Power and Hydrogen Sotavento Plant
Krieg, Dennis	D	Forschungszentrum Jülich	Poster: Analysis of the impact of hydrogen on wind power

HP.3b - High-Temperature Electrolysis

Mougin, Julie	FR	CEA	Poster: High temperature steam electrolysis for hydrogen production: from material development to durable stack operation
Dr.Rivera Tinoco, Rodrigo	NL	ECN Energy Research Centre Netherlands	Poster: Impact of the heat source selection on the high temperature electrolysis performances and economic competitiveness
Dr.Bo, Yu	CN	Tsinghua University	Poster: Progress in HTSE for Hydrogen Production using Planar SOEC Technology at INET

HP.3c - Alkaline Electrolysis

Ursua, Alfredo	ES	Public University of Navarra	Poster: Photovoltaic hydrogen production with commercial alkaline electrolyzers
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HP.3d - PEM Electrolysis

Rau, Sebastian	D	Fraunhofer Institute - ISE	Poster: PEM electrolyzer with nano-structured electrodes for high efficient hydrogen production
Huang, Cunping	US	University of Central Florida	Poster: Hydrogen production via electrolysis of aqueous ammonium sulfite solution

HP.4a - Reforming and Gasification - Fossil Energy Carriers

Prof.Muradov, Nazim Z.	US	University of Central Florida	Poster: Catalytic Processing of High-Sulfur Fuels for Distributed Hydrogen Production
Dr.Schmid, Hans-Peter	D	WS Reformer GmbH	Poster: FLOX Reformers - Hydrogen for Fuel Cells
Maximini, Marius	D	OWI Oel-Wärme-Institut gGmbH	Poster: Investigations of steam reforming catalysts for Diesel fuel
Prof.Cormos, Calin-Cristian	RO	Babes-Bolyai University	Poster: Hydrogen production from coal and biomass co-gasification process with carbon capture and storage
Goula, Maria	GR	Technological Educational Institute of Western Macedonia	Poster: Studies over x%Ni/10%CeO ₂ -Al ₂ O ₃ catalysts for dry reforming and combined dry and steam reforming of methane for hydrogen production
Dr.Retnamma, Rajasree	PT	National Institute of Engineering	Poster: Optimum Temperature Policy for Sorption Enhanced Steam Methane Reforming Process for Hydrogen Production
Henry, Philippe	FR	N-GHY	Poster: GENHSTOK : Pure H ₂ production with CO ₂ capture"

Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: Obtaining pure hydrogen from natural gas pyrolysis by redox processes
Dr.Menna, Laura	IT	University of Naples Federico II	Poster: Innovative ATR-based PEM fuel cell system with hydrogen membrane separation: energy efficiency analysis
Youssef, Emhemmed A.	CA	University of Western Ontario	Poster: A Novel Technique for Hydrogen Production from Hog-Manure in Supercritical Partial Oxidation (SCWPO)
Takeishi, Kaoru	JP	Shizuoka University	Poster: Development of hydrogen production catalysts from dimethyl ether
Lu, Yong	CN	East China Normal University	Poster: Miniature NH ₃ Cracker Based on Microfibrous Entrapped Ni-CeO ₂ /Al ₂ O ₃ Catalyst Monolith for Portable Fuel Cell Power Supplies
Dr.Jalowiecki-Duhamel, Louise	FR	CNRS Université Lille 1	Poster: Low temperature hydrogen production from ethanol over cerium and nickel based oxyhydrides
Botas Echevarría, Juan Angel	ES	Universidad Rey Juan Carlos	Poster: Ordered mesoporous carbons as catalysts with remarkable activity and stability for hydrogen production without CO ₂ emissions by CH ₄ decomposition
Abanades, Stéphane	FR	CNRS	Poster: Hydrogen production from natural gas thermal cracking: design and test of a pilot-scale solar chemical reactor
Dr.Heidebrecht, Peter	D	Max-Planck-Institut	Poster: Hydrogen Production from Reformate Gas by a Cyclic Water Gas Shift Reactor
Dr.Dufour, Javier	ES	Universidad Rey Juan Carlos	Poster: Water gas shift reaction over magnetite-based catalysts in membrane reactor conditions
Dr.Jung, Un Ho	KR	Korea Institut of Energy Research	Poster: A newly designed compact fuel processor for the 1 kW class residential PEM fuel cells
Dr.Salemme, Lucia	IT	University of Naples Federico II	Poster: Catalytic Partial Oxidation in a Reverse Flow Reactor: A comparison between Rh/Al ₂ O ₃ and Pt/Al ₂ O ₃
Alvarez-Galvan, Consuelo	ES	Csic- Institute of Catalysis	Poster: Reforming of diesel fuel for hydrogen production over catalysts derived from LaCo _{0.8} M _{0.2} O ₃ (M = Ni, Ru, Fe, Ga)
Dr.Seo, Dong Joo	KR	Korea Institut of Energy Research	Poster: Development of 20 Nm ³ /h class hydrogen production unit using natural gas reformer and PSA
Eckle, Stephan	D	Universität Ulm	Poster: Selective Methanation of CO in CO ₂ rich feed gases on supported Ru catalysts
Dr.Cocchi, Stefano	IT	University of Bologna	Poster: Two-step methanol reforming: a redox cycle approach for the production of H ₂
Di, Jiexun	UK	University of Oxford	Poster: Development of highly active natural gas reforming catalyst for internal reforming in low temperature SOFC
Dr.Montané, Daniel	ES	Rovira i Virgili University	Poster: Catalytic gasification of glycerol in supercritical water for hydrogen production
Wu, Chunfei	UK	University of Leeds	Poster: Hydrogen production from the pyrolysis-gasification of waste plastics in the presence of nickel-based catalysts

HP.4b - Reforming and Gasification - Biomass

Prof.Changfeng, Yan	CN	Guangzhou Institute of Energy Conversion	Poster: Hydrogen Production by Steam Reforming of Bio-Oil Aqueous Fraction over Ni/CeO ₂ -ZrO ₂ Catalyst
Calles, Jose Antonio	ES	Universidad Rey Juan Carlos	Poster: Hydrogen Production by Ethanol Steam Reforming on Ni/SiO ₂ catalysts: Effect of Ce and Zr Incorporation
Dr.Lee, In Gu	KR	Korea Institute of Energy Research	Poster: Hydrogen Production by Supercritical Water Gasification of Wastewater from Food Waste Treatment Processes
Dr.Furusawa, Takeshi	JP	Utsunomiya University	Poster: The cycle use test of Pt based catalyst for the steam reforming of aaphthalene/benzene as model tar compounds of biomass gasification
Wiessner, Frank	D	Linde AG Engineering Division	Poster: Production of Green Hydrogen by the Renewable Feedstock Glycerin
Dr.Lee, In Gu	KR	Korea Institute of Energy Research	Poster: Hydrogen Production from Lignocellulosic Biomass by Two-step Gasification Method

HP.5 - Hydrogen-Separation Membranes

Nishii, Takumi	JP	Tokyo Gas Co., Ltd. Technology Research Institute	Poster: Reforming Performance of Hydrogen Production Modules based on Membrane On Catalyst
Yukawa, Hiroshi	JP	Nagoya Institute of Technology	Poster: Alloy Design of Nb-based Hydrogen Permeable Alloys with High Hydrogen Permeability and Strong Resistance to Hydrogen Embrittlement
Dr.Montané, Daniel	ES	Rovira i Virgili University	Poster: Ceramic-supported polymer and carbon membranes for hydrogen separation
Calles, Jose Antonio	ES	Universidad Rey Juan Carlos	Poster: Comparison of composite Pd-Ag and Pd-Cu membranes over PSS supports for hydrogen separation
Zillich, Christian	D	Universität Duisburg-Essen	Poster: The Effect of Hydrogen on Transport Properties of Highly Permeable Metal Membranes

HP.6 - Hydrogen Systems Assessment

Furlan, André Luis	BR	The University of Campinas National Renewable Energy Laboratory	Poster: Comparative Analysis of Photovoltaic Power Storage Systems by means of Batteries and Hydrogen in Remote Areas of the Amazon Region of Brazil
Day, Kristin	US	Laboratory	Poster: Evaluation of Hydrogen Storage System Characteristics for Light-Duty Vehicle Applications
Mansilla, Christine	FR	CEA	Poster: Performances and economic competitiveness comparison of advanced hydrogen production processes
Prof.Abdel-Aal, Hussein K.	EG	Higher Technical Institute	Poster: Resources of fossil and non-fossil hydrogen in the Middle East can make fuel cells an attractive choice for transportation: A survey study
Watanabe, Tomofumi	JA	The Institute of Applied Energy Research and Development	Poster: Cost estimation of transported hydrogen, produced by overseas wind power generations

HP.7 - Photocatalysis

Chen, Yubin	CN	Xi'an Jiaotong University	Poster: A novel one-step hydrothermal method for the preparation of Cd _{1-x} Zn _x S/titanate nanotubes composites for photocatalytic hydrogen production
Dr.Li, Yuexiang	CN	Nanchang University	Poster: Photocatalytic hydrogen generation using glucose as electron donor over ZnIn ₂ S ₄ and Cd _x Zn _{1-x} S solid solutions
Guo, Penghui	CN	Xi'an Jiaotong University	Poster: Study on the optical properties, crystal growth and photocatalytic activity of Ni-doped TiO ₂ nanoparticles
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Mesoporous Sn _x /TiO ₂ materials as photocatalysts for water splitting reaction
Dr.Liu, Maochang	CN	Xi'an Jiaotong	Poster: Electronic structures and optical absorption properties of Ni-doped anatase TiO ₂ for photocatalysis from first-principles calculation
Navarro Yerga, Rufino Manuel	ES	Instituto de Catalisis y Petroleoquimica ICP - CSIC	Poster: Nanocrystalline Cd _{1-x} Zn _x S solid solutions as photocatalysts for water splitting under visible light irradiation: effect of the synthesis method
Chen, Donna	AU	University of Sydney	Poster: Study of ZnO-ZnS composite as Photocatalyst in The Water Splitting Reaction
Dr.Dennison, Stephen	UK	Imperial College London	Poster: Characterisation of Fe ₂ O ₃ for Hydrogen Production using Solar Energy
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Modified titanate perovskites in photocatalytic splitting of water
Dr.Lee, Tai-Chou	TW	National Chung Cheng University	Poster: The Visible-Light Responsive Polycrystalline AgInS ₂ Thin Films Prepared by Aqueous Solution for Photoelectrochemical Application
Dr.Deka, Dhanapati	IN	Tezpur University Energy	Poster: Photo-catalytic activity of Indium Titanate and doped Indium Titanate on hydrogen production
Costanzo, Lorenzo	AU	University of Sydney	Poster: Latex-supported, dye-sensitised, TiO ₂ core shell spheres, for the photocatalytic generation of hydrogen from water
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Construction of Z-scheme using XTiO ₃ :Pt (X = Ca, Sr, Ba) in combination with WO ₃ and BiV ₅ O ₁₄ for hydrogen production from water
Dr.Kaneco, Satoshi	JP	Mie University	Poster: Photocatalytic Hydrogen Production with Nanocomposite Photocatalysts

HS - Storage Systems

HS.1 - Physical Hydrogen Storage

Dr.Basnjev, Kaplan	RU	Gubkin Russian State University of Oil and Gas	Poster: Underground Hydrogen storage problems in Russia
Dr.Nony, Fabien	FR	CEA	Poster: New generation of full composite vessels for 70MPa gaseous hydrogen storage : Results and achievements of the French HyBou project
Dr.Demael, Emmanuel	FR	AIR LIQUIDE S.A.	Poster: Comparison between CFD simulations and experimental data for the evaluation of temperature distribution inside a cylinder during H ₂ fast filling
Dr.Vondricka, Jiri	D	GSR Ventiltechnik GmbH & Co. KG	Poster: Rapid Reaction Valve – new system for flow control

Weber, Mathilde	FR	AIR LIQUIDE S.A.	Poster: Experimental and numerical evaluation of transient temperature distribution inside a cylinder during fast filling for H ₂ applications
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HS.2a - Metal Hydrides

Prof.Singh, Shiwa Kant	IN	DCR University of Science & Technology Murthal	Poster: Investigations on RNi5 type hydrogen storage materials and ist utilization
Urbanczyk, Robert	D	Institut für Energie- und Umwelttechnik	Poster: HT-PEM Fuel Cell System with integrated complex hydride storage tank
Dr.Chung, Chih-Ang	TW	National Central University	Poster: Theoretical study of a metal hydride reactor with Mg ₂ Ni Alloys
Dr.Röntzsch, Lars	D	Fraunhofer Institute - IWS	Poster: Hydrogen storage properties of melt-spun nanocrystalline Mg-Ni-Y alloys
Prof. Dr.Anik, Mustafa	TR	Eskisehir Osmangazi University	Poster: Improvement of the Electrochemical Hydrogen Storage Performance of Mg-Based Alloy by the Various Partial Replacement Elements
Uchida, Hirohisa	JP	Tokai University	Poster: Effect of O ₂ preadsorption on the rate of H ₂ absorption on the surface of rare earths (La, Ce, Pr, Nd, Gd, Tb, Dy and Y) at 298K
Dr.Jain, I.P.	IN	University of Rajasthan	Poster: ERDA: Technique for Hydrogen Content and Depth profile in Thin Film Metal Hydride
Uchida, Hirohisa	JP	Tokai University	Poster: Combinational Effects of Charged Particle Irradiation and Alkaline Pretreatment on Hydriding Property of a Mm-Ni Based Alloy

HS.2b - Complex Hydrides

Yurdakul, Asli	TR	Middle East Technical University	Poster: Design of a Hydrogen gas generator using aqueous sodium borohydride solution for portable fuel cell applications
Kurban, Zeynep	UK	Science and Technology Facilities	Poster: Hydrogen storage in Ammonia-Borane encapsulated Polymer nano-fibres
Dr.Okada, Yoshimi	JP	Chiyoda Corporation R&D Center	Poster: Development of Dehydrogenation Catalyst for Organic Chemical Hydride Method and Global hydrogen supply chain vision
Prof.Minkina, Valentina	SR	Heat and Mass Transfer Institute NAS	Poster: Hydrolysis of sodium borohydride for hydrogen generation
Frischauf, Norbert	NL	JRC-IE	Poster: The NESSHY hydrogen sorption properties database
Delmelle, Renaud	BE	Université catholique de Louvain	Poster: In-situ study of hydriding kinetics in Pd-based thin film systems
Dr.Moretto, Pietro	NL	European Comission DG JRC - IE	Poster: Round Robin hydrogen sorption performance characterisation of carbon adsorbants, complex and metal hydrides
Dipl.-Kfm.Fornol, Gregor	NL	H ₂ Fuel-System B.V. Executive Board	Poster: Chemical Hydrides - A new technology to store and release Hydrogen
Bellosta von Colbe, Jose M.	D	GKSS Forschungszentrum GmbH	Poster: Experimental Investigation of an 8 kg - Alanate Hydrogen Storage Tank
Boddien, Albert	D	Leibniz-Institut für Katalyse e.V.	Poster: Improved Hydrogen Generation from Formic Acid
Dr.Auroux, Aline	FR	CNRS	Poster: Calorimetric and kinetic studies of the catalyzed hydrolysis of sodium borohydride
Selvan, Pukazh	IN	Banaras Hindu University	Poster: Nanocatalysis for NaAlH ₄
Dr.Junge, Henrik	D	Leibniz-Institut für Katalyse e.V.	Poster: Formic Acid - Convenient Liquid Hydrogen Storage for mobile applications

Hudson, Sterlin Leo	IN	Banaras Hindu University	Poster: Effects of coiled graphitic nanofibres for improving the dehydrogenation characteristics of complex aluminium hydrides
Dr.Rozenak, Paul	IS	Hydrogen Energy Batteries LTD	Poster: Hydrogen generation by aluminum-water reactions

HS.3 - Adsorption Technologies

Prof Dr.Mitkin, Valentin	RU	Nikolaev Institute of Inorganic Chemistry	Poster: Mesoporous nanocomposition"carbon-light metal hydride" materials for hydrogen storage and reversible usage
Botas Echevarría, Juan Angel	ES	Universidad Rey Juan Carlos	Poster: Influence of metal doping of a MOF-74 framework on hydrogen adsorption
Prof.Imamura, Hayao	JP	Yamaguchi Univerity	Poster: Magnesium-based nanocomposites synthesized by high-energy ball milling for hydrogen storage
Prof.Yarovsky, Irene	AU	RMIT University Physics	Poster: Theoretical studies of aluminium nanostructures for hydrogen storage
Dr.Pedicini, Rolando	IT	CNR-ITAE	Poster: Hydrogen Storage by Functionalised Poly(ether ether ketone)

IP - Policy Perspectives, Initiatives and Cooperations

IP.1a - National Strategies and Programmes

Rashidi, Reza	IR	SUNA	Poster: Renewable Energy Policy and Hydrogen and Fuel Cell Program of Islamic Republic of Iran
Ochi, Kazuyuki	JP	Saijo City Office Planning and Economics Division	Poster: Policy and Action Programs for Hydrogen Energy
Le Duigou, Alain	FR	CEA	Poster: Aims and first assessments of the French Hydrogen pathways Project HyFrance3

IP.1b - IEA Hydrogen Implementing Agreement

Dr.Schoenung, Susan	US	Longitude 122 West, Inc.	Poster: Findings of a Literature Search on the Resources of Hydrogen for the Hydrogen Economy
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SA - Strategic Analyses

SA.2 - Life-Cycle Assessment and Economic Impact

Goula, Maria	GR	Technological Educational Institute of Western Macedonia	Poster: Bioenergy: Hydrogen vs Biofuels using LCA
Dr.Ferreira, Ana Filipa	PT	Instituto Superior Técnico	Poster: Analysis of energy consumption and CO2 emissions of the life cycle of bio-hydrogen applied to the Portuguese road transportation sector
Hajjaji, Nouredine	TN	CNRS	Poster: An exergetic life cycle assessment for improving hydrogen production by steam methane reforming
Guinea, Domingo M.	ES	CSIC	Poster: Extensive Analysis of Hydrogen Costs

SA.3 - Socio-Economic Studies

Corneille, Marcel	D	Ingenieurbüro EMCEL	Poster: Fuel Cell and Hydrogen (FCH2) Technology Creates Business Opportunities beyond Products and Applications
Bouallou, Chakib	FR	MINES ParisTech	Poster: How to improve the public perception of hydrogen?
Dr.Viebahn, Peter	D	Wuppertal Institut für Klima, Umwelt und Energie, Abt. Energie	Poster: Lessons for low-power fuel cell vehicles from a demonstration project: results of techno-economic, safety, environmental and social assessment of the EU-HYCHAIN MINI-TRANS project

SA.4 - Education and Public Awareness

Park, Jaedeuk	KR	Yonsei University	Poster: Development of Web Site for Hydrogen Safety Education
Dr.Yazici, M.Suha	TR	UNIDO-ICHET	Poster: Education Activities at UNIDO-ICHET
Bolcich, Juan Carlos	AR	Asociacion Argentina del hidrogeno	Poster: Wind - Hydrogen Demonstration Plant, Pico Truncado, Santa Cruz, Argentina
Ceviz, Yucel	TR	UNIDO-ICHET	Poster: Light Mobility Applications towards Public Education and Research

SA.5 - Market Introduction

Evers, Arno A.	D	Arno A. Evers FAIR-PR	Poster: Establishing a Model for a Hydrogen-Oriented Society
Nelsson, Corfitz	SE	Swedish Gas Center	Poster: HCNG – a bridge to a hydrogen future or a dead end?
Julien, Marianne	FR	Air Liquide Hydrogen Energy	Poster: Horizon Hydrogen Energy (H2E) Innovation Program

SA.7 - Regional Activities

Lindner, Volker	D	h2-netzwerk-ruhr	Poster: The Hydrogen Valley within the Ruhr Metropolis
Fernandes, Tomas Rei	PT	Institute Superior Técnico	Poster: A methodology for a hydrogen roadmap: the case for the SUDOIE area

SI - Safety Issues

SI.1 - Vehicle and Infrastructural Safety

Pauly, Rolf	D	AppliedSensor GmbH	Poster: Selective & Reliable Safety & Control Sensors for the Hydrogen Economy
Dr.Korobtsev, Sergey	RU	RRC Kurchatov Institute HEPTI	Poster: Two basic modes of hydrogen-air explosive envelope formation in confined space: implications for hydrogen detectors allocation and actuation
Dr.Black, Grainne	NL	European Commission DG JRC - IE	Poster: Performance Testing of a MOSFET Sensor
Gasior, Pawel	PL	Wroclaw University of Technology	Poster: Smart fibre optic methods for structural health monitoring of high pressure vessels for hydrogen storage
Leunis, Elke	BE	OCAS NV Substrate and Metallic Coating Development	Poster: Selecting hydrogen embrittlement resistant materials by means of the disc rupture test
Dr.Acosta Iborra, Beatriz	NL	JRC - IE - Petten	Poster: GASTEF: The JRC-IE Compressed hydrogen gas tanks testing facility

LaChance, Jeffrey	US	Sandia National Laboratories	Poster: Risk Associated with the Use of Barriers in Hydrogen Refueling Stations
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SI.2 - Regulations, Codes, Standards and Test Methods

Dr.Morreale, Carmen	IT	Stazione Sperimentale per i Combustibili	Poster: H2 ignition by hot surfaces: safety issues and test methods
Mansooji, Mostafa	IR	SUNA	Poster: Study of Stationary Fuel Cell System Installation Codes and Standards

SM - Existing and Emerging Markets

SM.1 - Off-Grid Power Supply and Premium Power Generation

Dr.Rajalakshmi, Natarajan	IN	Centre for Fuel Cell Technology	Poster: Grid Independent PEMFC systems @CFCT-ARCI Poster: Remote telecom system including photovoltaic energy and H2 production by electrolysis
Cuevas Escribano, Raquel	ES	INTA Renewable Energy	
Brinkhaus, Matthis	D	University of Applied Sciences Ansbach	Poster: Solar-hydrogen based autonomous electric power system in operation
Rupprecht, Klaus	D	Heliocentris Energiesysteme GmbH	Poster: Solar - hydrogen fuel cell systems
Dr.Aicher, Thomas	D	Fraunhofer Institute - ISE	Poster: 250 Wel Reformer Fuel Cell System for Bio-Ethanol Poster: Remote telecom system including photovoltaic energy and H2 production by electrolysis
Martinez, Graciano	ES	INTA Renewable Energy	
Hölscher, Martin	D	H & S Hard- und Software Technologie	Poster: Fuel cells as back-up DC power supply for substations

SM.2 - Space and Aeronautic Applications

Cuevas Escribano, Raquel	ES	INTA Renewable Energy	Poster: Unmanned Aerial Vehicle driven by Fuel Cell technology, AVIZOR
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SM.3 - APUs for Road Vehicles, Ships and Airplanes

Dipl.-Ing.Machens, Christian	D	Marine Hydrogen and Fuel Cell Association MHFCA e.V.	Poster: Marine Hydrogen and Fuel Cell systems
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SM.4 - Portable Applications and Light Traction

Wilhelm, Jörg	D	Forschungszentrum Jülich	Poster: Hybridization and Control of Direct Methanol Fuel Cell Systems for Material Handling Applications
Dr.Andrukaitis, Ed	CN	Defense R&D Canada	Poster: Hydrogen Storage for Auxiliary Power in Military Vehicles
van Sterkenburg, Stefan	NL	HAN Univeristy Zentrum für Brennstoffzellen	Poster: Efficiency of a fuel cell driven forklift truck with a small AGM-battery packet
Dr.Beckhaus, Peter	D	Technik GmbH	Poster: Sub kilowatt fuel cell systems – solutions for applications

ST - Stationary Applications

ST.1 - High-Temperature Fuel Cells

Contestabile, Marcello	UK	Imperial College London	Poster: An assessment of the socio-economic and environmental impacts of the uptake of a fuel-flexible, solid oxide fuel cell residential micro-CHP in the EU
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ST.2 - Fuel Cells for Buildings

Mora, Joaquin	ES	Foundation for the Development of New Hydrogen Technologies in Aragon	Poster: Isolated Hybrid installation to cover single family house electrical consumptions with Hydrogen storage (IH2 Project)
Alzuela Ibañez, Beatriz	ES	CENER	Poster: Definition and analysis of a hydrogen integrated building in Andalucía, Spain
Brenscheidt, Ulrich	D	Ritter Elektronik Mechatronik GmbH	Poster: The PEM fuel cell management system, a combination of high efficient DC/DC converter, support hardware and specific control strategy
Budd, Geoffrey	CA	Ballard Power Systems Inc	Poster: Utilizing Renewable Energy Resources for Distributed Power
Arsalis, Alexandros	DK	Aalborg University	Poster: Modeling And Simulation Of A Residential Micro-CHP System Based On HT-PEMFC Technology
Schastlivtsev, Alexey	RU	Joint Institute for High Temperatures RAS	Poster: Thermodynamic efficiency of geothermal plants with hydrogen steam superheating
Kaytaz, Asli	TR	TUBITAK-MAM-GMBE	Poster: Exergy Analysis of Hydrogen Production Unit Integrated with a PEM Fuel Cell
Ilhan, Nilüfer	TR	TUBITAK-MAM-GMBE	Poster: Exergy Analysis of Hydrogen Production Unit Integrated with a PEM Fuel Cell
Dr.Verhage, Adriaan	NL	NedStack Fuel Cell Technology B.V.	Poster: Duration tests of PEM fuel cells in a 50 kW pilot power plant
Guinea, Domingo M.	ES	CSIC- Instituto de Automatica Industrial	Poster: Fuzzy Logic Control of a PEMFC for residential application

TA - Transportation Applications

TA.1 - Fuel-Cell Power Trains

Jermer, Boris	D	HyCologne Wasserstoff Region Rheinland e.V.	Poster: The operation of a new hybrid fuel cell bus in the Cologne-Area
Kaup, Dieter	D	Vossloh Kiepe GmbH Sales SBU	Poster: H2-Bus NRW - A Hybrid Electric Fuel Cell Bus
Jung, Peter	D	Moehwald GmbH	Poster: Modular Test Equipment - Flexible Application Test Bench for Fuel Cell Power Systems
Weigl, Jörg	MY	Universiti Teknologi Malaysia	Poster: Fuel Cell Motorbike in endurance test
Prof.Kendall, Kevin	UK	University of Birmingham	Poster: Hydrogen fuel cell hybrids for campus use
Gnörich, Bruno	D	RWTH Aachen University	Poster: Reducing Fuel Cell Vehicle Costs through Drivetrain Hybridization - A Life Cycle Analysis
Walter, Stephan	CH	Paul Scherrer Institut	Poster: Hydrogen driven municipal vehicle (hy.muve)

TA.3 - Hydrogen Internal Combustion Engines

Dr.Bose, Probir	IN	NIT Silchar and NIT Agartala	Poster: An experimental study of the emission reduction potential of hydrogen in a diesel engine under EGR operation
Prof.Yamane, Kimitaka	JP	Tokyo City University	Poster: Development of a Common-rail Type High Pressure Hydrogen Injector with a Large Injection Rate and an Ability of Multiple Stage Injection
Shioji, Masahiro	JP	Kyoto University	Poster: Feasibility of the Direct-Injection SI Hydrogen Engine at Lower Injection Pressures

TA.4 - Systems Analysis and Well-to-Wheel Studies

Voll, Anna	D	RWTH Aachen University	Poster: Production of biofuels - The hydrogen consumption as performance indicator in the early design stage
Dr.Weeda, Marcel	NL	European Commission Institute for Energy Research Center	Poster: Impacts of demonstration phase activities and car refuelling habits of automobile drivers on the uptake of hydrogen cars and the corresponding development of hydrogen refuelling infrastructure

TA.5 - Demonstration Projects, Costs and Market Introduction

Cook, Shawn	CA	Canadian Hydrogen and Fuel Cell Association	Poster: Summary of Results and Learning Experiences from the Vancouver Fuel Cell Vehicle Program
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TA.6 - Electrification in Transportation Systems

Koj, Jan Christian	D	FH Düsseldorf	Poster: Hydrogen and/or battery electric vehicles - Where will development go to?
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