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## H<sub>2</sub>FC

*Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy*

# Deliverable

### D5.8 Schedule and Report on H2FC Conference (1st)

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# 1 H<sub>2</sub>FC Topic\_“Conferences”

## 1.1 Introduction

Main focus of the task N4.5, WP5 is to organize four conferences in broad area of hydrogen and fuel cells so to gather the H<sub>2</sub>FC community, investigate bottlenecks and chances within the field, promote H<sub>2</sub>FC European Infrastructure project activities and opportunities.

These conferences have been/will be organized within internationally recognized events, as detailed in the following chapters.

TasI N4.5 is deeply linked with each work package out of networking activities, joint research activities and transnational access, being its aim to disseminate and promote project services, infrastructures, activities and achievements. However, it is clear that it is mainly connected with WP2 (N1) and web portal running under WP1, as communication and public relations are deeply concerned and the web is the first and main channel to disseminate.

## 1.2 European Fuel Cell Technology & Applications Piero Lunghi Conference (EFC11)

The first conference has been organized by the University of Perugia and ENEA, with the support of the University of Pisa, on 14-16 December 2011 in Rome, Italy within the “*European Fuel Cell Technology & Applications Piero Lunghi Conference*”, EFC ([www.europeanfuelcell.it](http://www.europeanfuelcell.it)).



Aim of the event was to officially launch the H<sub>2</sub>FC Infrastructure project.

EFC is the solely international event on fuel cells held in Italy and one of the most important event within the field boasting an average of 250/300 participants per edition.

The event includes plenary, parallel and poster sessions, all of them hosting experts, researchers, politicians, etc... from both inside and outside Europe, in particular South Korea, USA, Japan, China, Russia (between them, Ken-Ichiro Ota, Yokohama National University; Joseph Stanford, DOE; Bert De Colvenaer, Executive Director of

European Fuel Cells and Hydrogen Joint Undertaking just to name a few).

**Fig. 1** – Entrance of the Conference Center

Chairman of the event is Angelo Moreno, responsible of hydrogen and fuel cells projects at ENEA and partner of H<sub>2</sub>FC project. Other partners of H<sub>2</sub>FC have been involved as members of the Organizing and Scientific Committee.

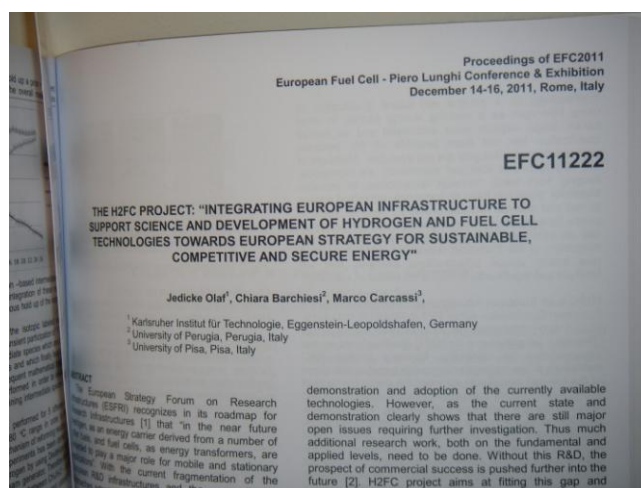


Being the 1<sup>st</sup> project event, a general overview of the project objectives and activities has been done. In this light, posters and flyers have been displayed at the conference premises (Fontana di Trevi Conference Center).



**Fig. 2** – H2FC first poster displayed at the Fontana di Trevi Conference Center

An abstract on the project starting has been submitted and then published in the book of proceedings of EFC11 (ref. EFC11222).



**Fig. 3** – H2FC first abstract published in the EFC11 Book of proceedings

Last but not least, the conference chairman has introduced the project and its opportunities (access and technical school in particular) during the plenary session which gathered more than 300 people from all over the world.



**Fig. 4** – Plenary session at EFC11

### 1.3 International Conference on Hydrogen Energy - 2013 Edition

With reference to the second conference, it's worth to mention that the University of Pisa and UP have been involved as leader in the set-up of the Scientific and Organizing Committee of ICHS 2013 (<http://www.ichs2013.com/>) which was held in Brussels on September 9-11, 2013 inside the Charlemagne Building of European Commission.

The organizing institutions were: International Association for Hydrogen Safety and European Commission, with the endorsement of New Energy World JU (fuel cells & hydrogen for sustainability), IPHE, Italian National Fire Corps, U.S. Department of Energy, HIA (IEA), all of them in collaboration with H2FC European Infrastructure.



**Fig.5** - The collaboration with the H2FC European Infrastructure project is highlighted on the respective conference website together with other important organizations and institutions out of the hydrogen and safety community. This highlights also the importance and acceptance of the H2FC European Infrastructure project!



A session within the ICHS 2013 was “*Fuel Cells related safety issues*”. This session was organized by H2FCEuropean Infrastructure consortium and the first lecture was done by H2FCEuropean Infrastructure coordinator. More than 140 abstracts have been received and more than 200 participants were registered. Many H2FCEuropean Infrastructure partners contributed, with papers, to the Conference.

An effort has been done in order to better coordinate the Conferences within the H2FCEuropean Infrastructure project; in fact in the scientific committee of ICHS 2013 there were many persons already involved in the Piero Lunghi Conference Speakers from Europe and also Countries outside Europe have been invited. Just to name a few, invited speakers will be Ahmad Pesaran from the National Renewable Energy Laboratory, Colorado; Peter Lehman from Schatz Energy Research Center (SERC) at Humboldt State University; Prof. Dr. Zong Qiang MAO, Institute of Nuclear Energy Technology (INET), Tsinghua University, Beijing, China.



**Fig.6** - The participants at the Session: Global Policies and initiatives for hydrogen in transitioning to a low-carbon economy

## Program of the FC Safety session on 10 September 2013

<b>JENK</b>	<b>Session 6A:</b> <b>FC/electrolysis safety</b> Chair: O. Jedicke
Paper Id No: 142 Hotellier, Gaëlle, Becker, Inés <b>Safety concept of a self-sustaining          PEM Hydrogen Electrolyzer System</b>	
Paper Id No: 191 Dzhus, K.A., Grigoriev, S.A., Korobtsev, S.V., Fateev, V.N., Bessarabov, D.G., Millet, P. <b>Failure of PEM water electrolysis          cells: case study involving anode dissolution          and membrane thinning</b>	
Paper Id No: 195 Nordin, Nazatul Niza, Ahmad, Arshad, Mohamad, Mardawan, Ali, Mohamad Wijayanuddin <b>Cost effective inherent safety index for polymer          electrolyte membrane fuel cell systems</b>	
Paper Id No: 240 Jedicke, O.R., Inge-Dahl, P. H2FC European Infrastructure; <b>Research opportunities to focus on scientific          and technical bottlenecks</b>	


**Fig.7** - Program of the FC Safety session on 10 September 2013

### 1.4 EMRS Fall Meeting - Warsaw - September 2013.

H2FC European Infrastructure is arranging together with another infrastructure projects an own session on the EMRS Fall Meeting which will take place in Warsaw in September 2013.

[http://www.emrs-strasbourg.com/index.php?option=com\\_content&task=view&id=572&Itemid=1584](http://www.emrs-strasbourg.com/index.php?option=com_content&task=view&id=572&Itemid=1584)

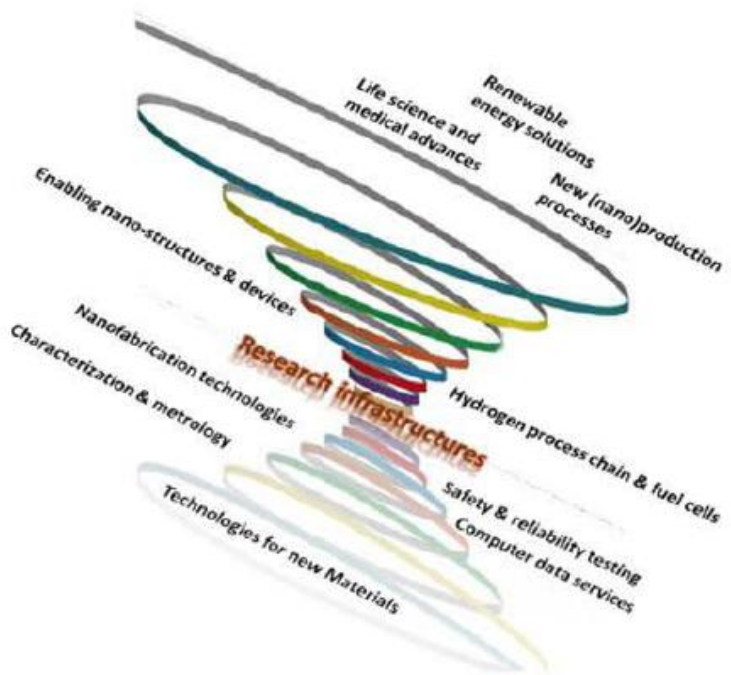




EMRS Fall Meeting 2013 16-20 September 2013

**Symposium M**

**Research Infrastructures at the frontier of innovation – cutting edge technologies for knowledge based applications**



**CHAIRPERSONS:**

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This symposium is organized by the Karlsruhe Nano Micro Facility KNMF, the FP7 European Infrastructure projects EUMINAFab, H2FC and QualityNano, and the Central Europe project Nanoforce.

Fig.8 - Start page flyer and draft of abstract book to the session of collaborating partners to the EMRS Fall meeting 2013 in Session M

## 1.5 European Fuel Cell Technology & Applications Piero Lunghi Conference (EFC13)

UP and ENEA, with the support of UPI, are working at the organization of the 5<sup>th</sup> edition of the “European Fuel Cell Technology & Applications Piero Lunghi Conference” EFC13 which will be held on 11-13 December in Rome, Italy, at the Fontana di Trevi Conference Center.

Some project partners are members of the Organizing and Scientific Committee and many H<sub>2</sub>FC partners are contributing with the submission of scientific papers and will be then invited for a speech. In this light, a session on “fuel cells safety issues” has been introduced.

The conference chairman, Angelo Moreno from ENEA, will highlight during the plenary sessions the H<sub>2</sub>FC opportunities to the conference participants (a short ppt presentation has been realized with such a purpose) and will broadcast the project “Road Show” realized within task 1.3. Posters and project leaflets will be displayed. Olaf Jedicke, project coordinator, will take part at the event and present to the conference attendees the project opportunities.

The screenshot shows the website for the European Fuel Cell Technology & Applications Piero Lunghi Conference (EFC13). The page features a navigation menu on the left with categories like 'Conference at a Glance', 'Author Registration', 'The Conference', 'Meeting Information', 'Sponsorship & Opportunities', and 'Past Editions'. The main content area is titled 'European Fuel Cell Technology & Applications' and 'Piero Lunghi Conference & Exhibition December 11-13, 2013'. It includes a welcome message, a description of the conference's focus on fuel cell development and real-life applications, and a call to action for submitting 'bad ideas'. The right side of the page contains a login form for a 'RESERVED AREA' and logos for the founding institutions: Università degli Studi di Perugia, ENEA, Università degli Studi di Napoli 'Parthenope', FCLab, H<sub>2</sub>FC European Infrastructure Project, and the International Journal of Hydrogen Energy.

**Fig.9** - The collaboration with H<sub>2</sub>FC European Infrastructure is highlighted on the conference web site of the Piero Lunghi Conference 2013, together with another important institutions and/or organizations

A EU poster session and a project cocktail is foreseen within EFC13. The event is intended for the promotion and dissemination of projects funded by the European Commission, mostly FCH JU, on hydrogen and fuel cells. The poster area will be set up for the three conference days meanwhile the cocktail is scheduled on 12<sup>th</sup> December from 5 p.m. to 7 p.m. with the aim to foster networking and enhancing cooperation between all the involved institutions and companies.

In such a area, a place will be reserved to the H2FC project so that a poster and project brochures will be displayed. During the project cocktail, the conference chairman, Angelo Moreno and Chiara Barchiesi, responsible of WP5 dissemination, will meet anyone interested in the project and will promote and disseminate the project activities.

### 1.6 International Conference on Hydrogen Energy - 2015 Edition

On January 2013, under the request of NEDO, a preliminary meeting was held in Tokyo for the Organization of the next ICHE 2015 in Japan.



Fig.10 – Tentative Promotion Brochure of the next 2015 ICHE in Japan

### 1.7 Future actions

It is foreseen to organize another conference within another internationally recognized event which will be identified during next months. It is also under discussion the opportunity to hold the last project conference in December 2015 within the 6th edition of the "Piero Lunghi Conference". To broadly promote and disseminate the previous mentioned conferences, all dissemination and communication channels developed in N1 have been used.