



**The European Progress Review on  
Research and Development in  
*Hydrogen and fuel cell science and engineering***

*Brussels – April 27<sup>th</sup> 2015*



The Royal Flemish Academy of Belgium for Science and the Arts

Organized by  
the FP7 project H2FC European Infrastructure ([www.h2fc.eu](http://www.h2fc.eu)) and  
EERA JP FCs&H2 ([www.eera-set.eu/](http://www.eera-set.eu/))



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## Aim and objectives

This European review meeting aims to complement the Fuel Cells and Hydrogen Joint Undertaking (FCH JU) Programme Review Days and to **present two important documents: the Implementation Plan (IP) of the EERA Joint Programme FC&H2**, which prioritizes the basic research necessary in hydrogen and fuel cell science and engineering, and the result of the **progress review survey carried out by the FP7 Capacities project H2-FC Infrastructures**.

Looking deeper into the capacities of European research infrastructure and exposing the potential for strategic alignment, the event brings together leading researchers and academics in the field, **and will target:** representatives of DG Energy and DG research, National contact points of the EU Energy Committee, all Joint Programme (JP) members and H2FC-Infrastructures partners, the EERA Secretariat, other JPs, the FCH JU Project Office board, Industry Grouping (NEW-IG), Research Grouping (N-ERGHY), Scientific committee and States Representatives Group.

The programme is focused on identifying key bottlenecks in hydrogen and fuel cell science and engineering, assessing the progresses achieved at national level, and how to concert these activities for better **long-term competitiveness for Europe**.

Confronting the two documents mentioned, an **open discussion involving all participants** is planned in order to:

- ❖ highlight European progress and achievements within hydrogen and fuel cells science and engineering also outside FCH JU/EU-funded projects
- ❖ foster better scientific coordination of efforts at national and European level
- ❖ discuss which are key knowledge gaps and scientific/engineering bottlenecks
- ❖ assess and wrap up progress in the field to inform the wider hydrogen and fuel cells community

## Who should attend?

Researchers from industry and academia, experts in development and application of hydrogen and fuel cell technologies from all over Europe. The event will cover the four topics:

- ❖ hydrogen production
- ❖ hydrogen storage
- ❖ fuel cells and other hydrogen end-use
- ❖ hydrogen and fuel cells safety

All topics will be presented in one joint session, before the topics are discussed in round-table discussions led by expert panels.

## Location

The Royal Flemish Academy of Belgium for Science and the Arts, Brussels, see more info here: [http://www.kvab.be/kvab/zalen\\_EN.php](http://www.kvab.be/kvab/zalen_EN.php)



## Agenda

09:00-09:15 Welcome and introduction,

A. Moreno, ENEA, and O. Jedicke, KIT

09.15-10.00 Presentation of H2FC Infrastructures progress review survey

A. Ødegård, SINTEF

10.00-11.00 EERA Joint Program *FC&H2*: IP presented by SP coordinators

*10.00-10.15 SP1: Electrolytes (Deborah Jones, CNRS)*

*10.15-10.30 SP2: Electrodes (Luis Colmenares, SINTEF)*

*10.30-10.45 SP3: Stacks (Josef Mertens, FZ Jülich)*

*10.45-11.00 SP4: Systems (Jari Kiviaho, VTT)*

11.00-11.30 Coffee Break

11.30-12.00 EERA Joint Program *FC&H2*: IP presented by SP coordinators (ctd.)

*11.30-11.45 SP5: Modelling (Mathias Gerard, CEA)*

*11.45-12.00 SP6: Hydrogen handling (Robert Steinberger-Wilckens,  
University of Birmingham)*

12.00-13.00 Lunch

13.00-16.00 Open discussion to overcome the bottlenecks perceived within the H2-FC Infra and EERA JP frameworks

*13.00-14.00 H2 storage and safety*

*14.00-15.00 H2 production*

*15.00-16.00 FC issues*

16.00-16.30 Coffee Break

16.30-17.30 Wrap up and perspectives



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**Registration:**

On a first-come first-serve basis: please send an email to reserve your place for this important discussion to:

[stephen.mcphail@enea.it](mailto:stephen.mcphail@enea.it)

**The maximum number of participants is 100**

**Organizing committee**

Ulrich Schmidtchen (BAM)  
Angelo Moreno (ENEA)  
Stephen McPhail (ENEA)  
Olaf Jedicke (KIT)  
Anders Ødegård (SINTEF)  
Paul Inge Dahl (SINTEF)  
Luis Colmenares (SINTEF)

For more info about H2FC and EERA FCs&H2:

H2FC: [www.h2fc.eu](http://www.h2fc.eu) EERA: [www.eera-set.eu/index.php?index=31](http://www.eera-set.eu/index.php?index=31)

