

# SCHEDULE OVERVIEW

A background image featuring a white and blue Hydrail train on the left and a faint world map on the right. The word "HYDRAIL" is written in blue on the side of the train.

HYDRAIL

## Wednesday 6<sup>th</sup> June

02.00 p.m. – 03.00 p.m.	Registration and coffee
03.00 p.m. – 05.30 p.m.	Rountable, Hydrail present and future
06.00 p.m. – 07.30 p.m.	Welcome refreshment

## Thursday 7<sup>th</sup> June

08.30 a.m. – 09.00 a.m.	Registration and coffee
09.00 a.m. – 10.45 a.m.	Session 1 – “Introductory session”
10.45 a.m. – 11.00 a.m.	Coffee
11.00 a.m. – 01.30 p.m.	Session 2 – “Country Reports”
01.30 p.m. – 02.30 p.m.	Lunch
02.30 p.m. – 03.30 p.m.	Session 3 – “Manufacturers Updates”
03.30 p.m. – 04.00 p.m.	Coffee
04.00 p.m. – 05.30 p.m.	Session 4 – “Hybrid HFC Solutions”
07.00 p.m. – 09.00 p.m.	Social Dinner

## Friday 8<sup>th</sup> June

09.00 a.m. – 10.00 a.m.	Session 5 – “Hybrid HFC Solutions”
10.00 a.m. – 10.30 a.m.	Coffee
10.30 a.m. – 11.30 a.m.	Session 6 – “Hydrogen Supply”
11.30 a.m. – 12.30 p.m.	Discussion and Summary
12.30 p.m. – 14.00 p.m.	Lunch and Farewell

Wednesday

06<sup>th</sup> JUNE



2.00 p.m.

Registration and coffee

3.00 p.m.

Roundtable, Hydrail present and future

The Dynamics of Fundamental Change in Industries With Long-Life Plant, *Stan Thompson - USA*

6.00 p.m.

Welcome refreshment

Thursday

07<sup>th</sup> JUNE

8.30 a.m.

Registration and coffee

9.00 a.m.

Session 1 – “Introductory session”

EC policy in the field of innovation, *Helmut Morsi, European Commission, DG MOVE-B*

Advances in hydrogen safety engineering, *Vladimir Molkov Ulster University– IR*

10.45 a.m.

Coffee

11.00 a.m.

Session 2 – “Country Reports”

Developing a New Fuel Cell Prototype Train, *Seky Chang, Korea Railroad Research Institute - KR*

Germany's Strategy for Sustainable Rail Transport – Projects and Political Initiatives, *Elena Hof, NOW GmbH – National Organisation Hydrogen and Fuel Cell Technology - D*

Status of Hydrail Pursuits in Canada, *Peter Eggleton, TELLIGENCE Group Transportation Technology Consultants - CAN*

Austrian Rail on a Zero Emission Path – Hydrail related Projects and Potentials, *Helbert Wancura synergies consult.ing - A*

1.30 p.m.

Lunch



2.30 p.m.

### Session 3 – “Manufacturers Updates”

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Hydrogen Containment Systems for FCEV’s and Transport,  
*Radisa Nunic – Worthington Industries - A*

Opportunities and Challenges in Fuel Cell and Hydrogen Railway  
Applications, *Oben Uluc, Ballard - CAN*

3.30 p.m.

### Coffee break

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4.00 p.m.

### Session 4 – “Hybrid HFC Solutions”

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Hydrogen Fuel Cells in Passenger and Freight Rail: Simulation  
case studies from the United States, *Raphael Isaac, UC Davis -  
USA*

A High-Frequency HFC DC-DC Converter for the Next Generation  
Train (NGT) CARGO, *Athanasios Iraklis, DLR - D*

A reduced scale mobile HFC generating unit for a hybrid  
propulsion system of a park rail train, *Alexander Schimanofsky  
RCC Railway Competence and Certification - A*

7.00 p.m.

### Social Dinner

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## Friday

# 08<sup>th</sup> JUNE

9.00 a.m.

### Session 5 – “Hybrid HFC Solutions”

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The Influence of Battery Bank Sizing on Fuel Cell Efficiency in  
Series Fuel Cell Battery Hybrid Intercity Passenger Railway  
Vehicles: The Case Study of the Intercity 125, *Mohamed A.  
Hegazi, University of British Columbia - CAN*

Design and Analysis of a Regio-Shuttle RS1 Diesel Railcar  
Converted to Fuel Cell Hybrid Propulsion, *Toni Schirmer, DLR - D*

10.00 a.m.

### Coffee break

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10.30 a.m.

### Session 6 – “Hydrogen Supply”

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Future Scenarios for Hydrogen-Fueled Trains in the Regional  
Lines of Italy, *Luigi Crema, Fondazione Bruno Kessler - IT*

Large-scale Hydrogen Distribution via Liquid Organic Hydrogen  
Carriers (LOHC), *Cornelius von der Heydt, Hydrogenious  
Technologies GmbH - D*

11.30 a.m.

### Discussion and Summary

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12.30 p.m.

### Lunch and Farewell

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