

HyIndoor Final Dissemination Workshop
**“HyIndoor project main outcomes and guidelines for the safe fuel cell and
hydrogen systems indoor installation and use”**
(Thursday, 11 December 2014)

Organised by the HyIndoor project (<http://www.hyindoor.eu/>) in liaison with ISO TC 197, ISO TC 268 and IA HySafe

Venue: Relais de Courlande, France (<http://www.relais-de-courlande.com>)

Tentative programme

09.15 – 09.45 Registration

09:45 – 10:05 Opening (Project coordinator B L’Hostis, Chairman of the HyIndoor governing board, G Dang-Nhu, Chairman of ISO TC 268 Hervé Barthélémy)

10:05 – 10:20 Project overview and main outcomes (B L’Hostis)

Session 1 “General safety strategies for inherently safer hydrogen use indoors” (Chairs: D Houssin, AL; V Molkov, UU)

10.20 – 10.40 Safety objectives, phenomena and consequences map (V Molkov, UU)

10.40 – 11.00 General rules, best practices and safety strategies (D Houssin, AL)

11.00 – 11.20 Coffee

Session 2 “Ventilation of unignited releases” (Chairs: G Bernard-Michel, CEA; A Venetsanos, NCSR D)

11.20 – 11.40 Passive and forced ventilation systems with one vent (B Chernyavsky, UU)

11.40 – 12.00 Comparative analysis of ventilation with one and two vents (S Jallais, AL)

12.00 – 12.20 Pressure peaking phenomenon validation (V Shentsov, UU)

12.20 – 13.20 Lunch

Session 3 “Mitigation of hydrogen indoor deflagrations” (Chairs: M Kuznetsov, KIT; S Jallais, AL)

13.20 – 13.40 Vent sizing correlation for low strength equipment and buildings (B Chernyavsky, UU)

13.40 – 14.00 Localized mixture deflagrations: Inventory limit and mitigation by venting (B Chernyavsky, UU)

14.00 – 14.20 Overview of experimental findings in HyIndoor project (M Kuznetsov, KIT; P Hooker, HSL)

Session 4 “Dealing with hydrogen jet fires” (Chairs: P Hooker, HSL, V Shentsov, UU)

14.20 – 14.40 Jet fire experiments in laboratory scale facility (M Kuznetsov, KIT)

14.40 – 15.00 Observations from real scale indoor fire experiments (P Hooker, HSL)

15.00 – 15.20 CFD and engineering tools for fire characterization (V Shentsov, UU)

15.20 – 15.40 Coffee

Session 5 “Sensors for hydrogen detection” (Chairs: D Baraldi, JRC; E de Wit, HyGEAR)

15.40 – 16.10 Assessment of sensor performance and selectivity (E Weidner, V Palmisano, JRC)

Session 6 “Concluding session and roundtable discussion” (Facilitator: B L’Hostis, AL)

16.10 – 17.00 Proposal for RCS amendment and practical examples (Randy Dey CCS, G Dang-Nhu, AL)

17.00 – 17.30 Round table discussion and workshop conclusion

Information for potential participants:

Number of places in this thematic workshop is limited to 60 participants due to venue capacity. At the moment, the maximum number of registrations has been reached. Subsequent requests for registration will be put on the waiting list. We will contact you as soon as possible once it is known if additional spaces are available.

Workshop program and information on venue and accommodation options are available at the workshop website at http://www.hyindoor.eu/?page_id=274.

If you have further question, contact Dr. Boris Chernyavsky b.chernyavskiy@ulster.ac.uk.

Directions:

Final Dissemination Workshop will be held at Relais de Courlande (www.relais-de-courlande.com), located in approximately 4 km from Versailles, near Paris, France. It can be reached from Paris by taking RER train line C (www.ratp.fr/en/ratp/c_20572/rer-c/) to the station Petit Jouy-Les Loges. From the station hotel can be reached by taxi (distance of ~ 1.5 km) or by calling the hotel and requesting a shuttle to the station.

Participants arriving to Paris from Charles de Gaulle can take RER line B at CDG to Paris and change at Massi-Palaiseau to RER C lines toward Versailles/Jouy les Loges.

Accommodations:

48 rooms had been reserved for the workshop participants at Relais de Courlande. They are available for registered workshop participants on first come first served basis. The hotel contact information is

Le Relais De Courlande

23 Rue de la Division Leclerc

78350, Les Loges-en-Josas

Reservation: 0033 (0) 30 83 84 00

Email: hotel@relais-de-courlande.com

Web: <http://relais-de-courlande.com/>

Please refer to Air Liquide HYINDOOR project seminar when reserving to take advantage of discount rate available for the event.

Participants who do not wish or couldn't reserve the hotel at the value can use website <http://www.booking.com> to arrange alternative accommodations. There are several hotels within short distance from the venue, e.g.,

- Campanille-Versailles-Buc (<http://www.campanile-versailles-buc.fr>);
- The Hotel Versailles (Best Western) (<http://thehotel-versailles.fr>);
- Buc Lounge Hotel (<http://www.bucloungehotel.com>).

More hotels are available in Versailles within a short ride from the workshop location, including

- Hotel la Residence du Berry (<http://www-hotel-berry.com>);
- Mercure Versailles Chateau (<http://www.mercure.com/gb/hotel-1909-mercure-versailles-chateau/index.shtml>);
- A l'Hotel des Roys (<http://www.hotel-roys-versailles.com>).

Attached maps show the venue location relative to Paris centre, Versailles and the nearest RER station Petit Jouy-Les Loges.



