

Grant agreement no.: FCH-JU-325386



Support to Safety Analysis of Hydrogen and Fuel Cell Technologies

List of Publications



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1. Presentations and Conferences

Event	Presentation title	Presenters
FCH-JU Review Days, 11 th and 12 th November 2013	General Presentation of the Project Status as poster	O Jedicke, KIT
FCH-JU Review Days, 17 th November 2014	General Presentation of the Project Status as poster and oral presentation	O Jedicke, KIT
FCH-JU Review Days, 18 th November 2015	General Presentation of the Project Status as poster and oral presentation	O Jedicke, KIT
ICH5-4, International Conference on Hydrogen Safety, 9 th – 11 th September 2013	Presentation on SUSANA	O Jedicke, KIT
FCH-JU Review Days, 21 st November 2016	General Presentation of the Project Status as poster	O Jedicke, KIT
NAFEMS meeting on quality and reliability of CFD simulations	Development and Application of Model Evaluation Protocols http://www.nafems.org/events/nafems/2014/q_rcfd/	A Kelsey, HSL
ICChemE Hazards 25 conference, Edinburgh, UK	A model evaluation protocol for Computational Fluid Dynamics (CFD) models used in safety analyses for hydrogen and fuel cell technologies	S Coldrick, HSL
ICH5-6, International Conference on Hydrogen Safety, 19 th - 21 st October 2015	Development of a Model Evaluation Protocol for CFD Analysis of Hydrogen Safety Issues – The SUSANA Project*	D Baraldi, JRC
	*Accepted for publication in the International Journal of Hydrogen Energy, see Table 2.	
ICH5-6, International Conference on Hydrogen Safety, 19 th - 21 st October 2015	Modeling of cryogenic hydrogen jets	S G Giannisi, NCSR D
ICH5-6, International Conference on Hydrogen Safety, 19 th - 21 st October 2015	Comparison of convective schemes in hydrogen impinging jet CFD simulations	I C Tolias, NCSR D
ICH5-6, International Conference on Hydrogen Safety, 19 th -	CFD evaluation against a large scale unconfined hydrogen deflagration*	I C Tolias, NCSR D

Event	Presentation title	Presenters
21 st October 2015		
	*Accepted for publication in the International Journal of Hydrogen Energy, see Table 2.	
4th International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE) - 5 th -8 th June 2015	Application of CFD to hydrogen deflagration in a vented enclosure	I C Toliás, NCSR D
21st World Hydrogen Energy Conference, 13-16th June, 2016	HYMEP The Model Evaluation Protocol for CFD analysis of hydrogen safety issues	D Baraldi, JRC

2. Planned Publications

Journal	Title	Authors
International Journal of Hydrogen Energy (accepted for publication)	Development of a Model Evaluation Protocol for CFD Analysis of Hydrogen Safety Issues – The SUSANA Project	All partners
Journal of loss prevention in the process industries	General overview	All partners
International Journal of Hydrogen Energy (under review)	Release and dispersion modeling of cryogenic under-expanded hydrogen jets	A G Venetsanos and S G Giannisi, NCSR D
International Journal of Hydrogen Energy (accepted for publication)	CFD evaluation against a large scale unconfined hydrogen deflagration	I C Toliás, A G Venetsanos, N Markatos, C T Kiranoudis
Will be submitted in a relevant Journal (not decided yet)	Benchmark exercise on buoyant gas release and accumulation within a realistic garage facility at low release rate	Partners from NCSR D, JRC and UU

3. Newsletter articles

Publication	Title	Authors
Second edition of e-Newsletter	FCH JU project “Support to safety analysis of	D Makarov and V

within H2FC project	HFC technologies (SUSANA)"	Molkov
Fire and Blast Information Group (FABIG)	Development of a Model Evaluation Protocol for hydrogen applications	S Coldrick

4. Presentations to standard development organisations (ISO TC197 Hydrogen technologies)

V. Molkov, Ulster University, participated in ISO TC197 WG24 (Gaseous H2 Fueling Stations - General Requirements) Plenary and meeting on "Safety distances" (Fukuoka 22-26 Feb 2016). Presentation title: "European SUSANA project and the use of CFD for assessment of hazard distances for hydrogen systems and infrastructure"