

Clean Hydrogen JU webinar - 7 December 2022

“Computational Fluid Dynamics (CFD) for hydrogen safety analysis”

AGENDA

8:45	Login, registration	SPEAKER
9:00	Opening and organizational remarks	CleanH2 JU
9:05	European Hydrogen Safety Panel (EHSP) - Introduction	Iñaki Azkarate
9:15	CFD for hydrogen safety - Role, where to apply, typical phenomena, risk evaluation, and mitigation	Daniele Melideo
	Session 1: CFD for modelling hydrogen behaviour	
9:30	CFD for modelling hydrogen release and dispersion - GH2 indoor release with and without ventilation	Elena Vyazmina
9:45	CFD for modelling hydrogen fires - CFD predictions for hydrogen fire hazards	Jennifer Wen
10:00	CFD for modelling hydrogen explosions - Detonation, blast waves, effect of containments	Alexei Kotchourko
10:15	Break/ contingency time	
	Session 2: CFD for hydrogen safety-related assessment	
10:25	CFD for accident consequences assessment - CFD analysis of hazards and associated risks	Vladimir Molkov
10:40	CFD for hydrogen refuelling modelling - Refuelling of hydrogen tanks - Hydrogen refuelling stations	Elena Vyazmina Vladimir Molkov
11:00	CFD for mitigation measures assessment - Sensor placement, blast walls, barriers, detonation arrestors	Pratap Sathiah
11:15	CFD guidelines - Model evaluation protocol for CFD analysis of hydrogen safety issues	Daniele Melideo
	Session 3: Q&A/ Panel discussion	
11:25	Q&A/ Panel discussion	CleanH2 JU- EHSP
11:50	Closing remarks by Clean Hydrogen JU	CleanH2 JU