

JESS 2025**Hydrogen Safety**

draft programme

last changed

09/01/2025

P ... plenary lectures (all students), St ... student presentations,
H ... specialised lectures (H2 Safety module only)
all times are Greek local time (CE(S)T + 1:00 h)


www.jess-summerschool.eu
Sunday 14/09/2025

18:00 student registration
18:00 optional: Get-together of all lecturers
20:00 welcome reception (bar)
20:30 welcome dinner

Monday 15/09/2025

P.01	08:30	Welcome and General Introduction	Robert Steinberger-Wilckens (U Bham)
	09:00	Sustainable and Renewable Energy Future	Jens Oluf Jensen (DTU)
	09:45	coffee break	
P.02	10:00	Introduction to Fuel Cells and Electrolysis	Artur Majewski (U Bham)
	11:15	short break	
P.03	11:30	Thermodynamics and Efficiency of Electrochemical Cells	Jens Oluf Jensen (DTU)
	13:00	lunch	
P.04	16:00	Introduction to Battery Technology	Hans Kungl (FZJ)
	17:30	coffee break	
P.05	17:45	PowerTalk - Panel discussion on the evolution of the 'hydrogen economy'	moderated by Robert Steinberger-Wilckens (U Bham)
P.06	19:15	Introduction to the Students' Project	Shangfeng Du (U Bham)
	20:00	dinner	
St.01	21:00	Students' Introductions I	Robert Steinberger-Wilckens (U Bham)

Tuesday 16/09/2025

H.01	08:30	Challenges with metallic materials in H2 technologies	Sergio Blason (BAM)
	09:45	coffee break	
H.02	10:00	Storages for cryogenic gases and their safety (1)	Robert Eberwein (BAM)
	11:15	break	
H.03	11:30	Storages for cryogenic gases and their safety (2)	Robert Eberwein (BAM)
	13:00	lunch	
H.04	16:00	Regulations, Codes & Standards for Hydrogen	Robert Steinberger-Wilckens (U Bham)
	17:15	coffee break	
H.05	17:30	Industry presentation: Catalysis, CO2 valorisation & Hydrogen	industry veteran
	18:45	break	
St.02	19:00	Student Q&A session with industry veteran	all lecturers & students
	20:00	dinner	
St.03	21:00	Students' Introductions II	Robert Steinberger-Wilckens (U Bham)

Wednesday 17/09/2025

H.06	08:30	Unignited Hydrogen Releases	Dmitriy Makarov (Ulster University)
	09:45	coffee break	
H.07	10:00	Ignition of hydrogen releases	Dmitriy Makarov (Ulster University)
	11:15	break	
H.08	11:30	Jet fires and hazard distances	Dmitriy Makarov (Ulster University)
	13:00	lunch	
	14:00	excursion	
	21:00	dinner	

Thursday 18/09/2025

H.09	08:30	Handling Liquid Hydrogen	Walter Czarnetzki (Uni Esslingen)
	09:45	coffee break	
H.10	10:00	Hydrogen permeation and dispersion in confined space	Dmitriy Makarov (Ulster University)
	11:15	break	
H.11	11:30	Sensors for safety and process control in H2 technologies	Carlo Tiebe (BAM)
	13:00	lunch	
H.12	16:00	Safe handling of hydrogen in the lab	Artur Majewski (U Bham)
	17:15	Coffee break	
H.13	17:30	A compendium of fuel-related incidents - conventional and	Robert Steinberger-Wilckens (U Bham)
St.04 / P.10	19:00	Student project time (coaching) /alternative/ Beyond hydrogen: e-fuels and chemicals	all lecturers & students / Robert Steinberger-Wilckens (U Bham) & Hans Kungl (FZJ) & industry veteran
	20:00	dinner	

Friday 19/09/2025

H.14	08:30	Safety strategies and mitigation techniques	Dmitriy Makarov (Ulster University)
	09:45	coffee break	
P.11	10:00	industry presentation t.b.c.	t.b.c.
	11:15	break	
P.12	11:30	industry presentation t.b.c.	t.b.c.
	13:00	lunch	
St.05	16:00	ECTS Exam (optional)	optional
	16:45	coffee break	
St.06	17:00	Students' Project Presentations	Jens Oluf Jensen (DTU) & Artur Majewski (ex-U Bham)
P.13	19:00	Feedback & Wrap-up	Robert Steinberger-Wilckens (U Bham)
	20:30	farewell dinner	