



# ENEA Casaccia Research Centre September 21-22-23, 2022 Summer School Programme

The Hydrogen Summer School is organized by



## 21 Sep 2022 - Day 1

Time	Topic	Lecture
9.00-10.30	Welcome session	Giorgio Graditi - ENEA Mauro Mallone - MiTE Gaetano Iaquaniello - AIDIC
	Hydrogen production technologies	Paolo de Filippis, Giorgio Vilardi – University of Rome La Sapienza
10.30-10.45	Coffee break	
10.45-13.00	Hydrogen storage and distribution	Marcello de Falco – Campus Bio-Medico University; Benedetta de Caprariis - University of Rome La Sapienza
	Steam Reformer with Carbon Capture - H <sub>2</sub> production and distribution – SIAD case history	ing. Claudio Bani - SIAD
	Position paper AIDIC	Giacomo Rispoli - AIDIC
13.00-14.00	lunch	
14.00-18:00	H <sub>2</sub> Scenarios	Maurizio Delfanti - RSE
	Low Temperature Fuel Cell	tbc - CNR
	High Temperature Fuel Cell	Luigi Crema-FBK
	Interactive session	ENEA- AIDIC - DICMA
	Laboratory technical tour	Paolo Deiana, Massimiliano della Pietra - ENEA

## 22 Sep 2022 - Day 2

Time	Topic	Lecture
9.00-10.30	HyBRIDS project. H2 blending in natural gas pipelines	tbc-SGI
	Transforming catalysis to produce e-fuels	Gabriele Centi - University of Messina
10.30-10.45	Coffee break	
10.45-13.00	CO <sub>2</sub> conversion and e-Fuels	Raphaell de Gall - Total Energies
	Clean hydrogen for clean ammonia	Tim Hilbers - Yara Clean Ammonia
	The National Electrolyzers Gigafactory	tbc - ANSALDO/SOLID POWER
13.00-14.00	lunch	
14.00-17.45	Green hydrogen production	ENEL Green Power (Nicola Rossi)
	Integration of Hydrogen-based technologies onboard of Green Cruise vessels	tbc - Fincantieri
	Hydrogen Valley	Paolo Deiana - ENEA
	Interactive session	ENEA- AIDIC - DICMA
	Laboratory technical tour	Alberto Giaconia, Vincenzo Barbarossa - ENEA
18.00-20.30	Social programme	

## 23 Sep 2022 - Day 3

Time	Topic	Lecture
9.00-10.30	Hard to abate applications	Andrea Pisano - ENI
	Decarbonization of the steel industry	Cristiano Castagnola - Paul Wurth
10.30-10.45	Coffee break	
10:45-13.00	Hydrogen car – test drive	Andrea Saccone - Toyota
	Hydrogen, a fuel for the future	Andrea Saccone - Toyota
	Hydrogen propulsion systems	tbc - Punch Hydrocells
13.00-14.0	lunch	
14.00-17.15	Hydrogen trains	Gianluigi Canciani - Alstom
	Hydrogen trucks	Alessandro Bernardini - IVECO
	Interactive session. HSE design for H2	tbc - Techfem
	Intercative session presentation	Student
	Close-out and certificates distribution	Claudia Bassano - ENEA Paolo de Filippis - University of Rome La Sapienza