



ENEA Casaccia Research Centre

September 21-22-23, 2022

Summer School Programme



The Hydrogen Summer School is organized by.



SAPIENZA
UNIVERSITÀ DI ROMA

Dipartimento
Ingegneria Chimica
Materiali Ambiente

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TOYOTA



21 Sep 2022 - Day 1

Time	Topic	Lecture
9.00-9.45	Welcome session	Giorgio Graditi - ENEA Mauro Mallone - MiTE Gaetano Iaquaniello - AIDIC
9.45-10.30	Hydrogen production technologies	Paolo de Filippis, Giorgio Vilardi – University of Rome La Sapienza
10.30-10.45	Coffee break	
10.45-11.30	Hydrogen storage and distribution	Marcello de Falco –Campus Bio-Medico University; Benedetta de Caprariis - University of Rome La Sapienza
11.30-12.15	Steam Reformer with Carbon Capture - H2 production and distribution – SIAD case history	Claudio Bani-SIAD
12.15-13.00	Position paper AIDIC	Giacomo Rispoli - AIDIC
13.00-14.00	lunch	
14.00-14.45	H2 Scenarios	Maria Gaeta - RSE

14.45-15.15	Low Temperature Fuel Cell	Vincenzo Baglio- CNR
15.15-15.45	High Temperature Fuel Cell	Luigi Crema - FBK
15.45-17:00	Interactive session	tbc- ENEA, AIDIC, University of Rome La Sapienza
17:00-18:00	Laboratory technical tour	Paolo Deiana, Massimiliano della Pietra - ENEA

22 Sep 2022 - Day 2

Time	Topic	Lecture
9.00-9.45	HyBRIDS project. H2 blending in natural gas pipelines	Carmelo Fallone-SGI
9.45-10.30	Transforming catalysis to produce e-fuels	Gabriele Centi - University of Messina
10.30-10.45	Coffee break	
10.45-11.30	CO2 conversion and e-Fuels	Raphaell de Gall -Total Energies
11.30-12.15	Green hydrogen evolution toward its competitiveness	Pasquale Salza - ENEL Green Power
12.15-13.00	Decarbonization of the steel industry	Cristiano Castagnola - Paul Wurth
13.00-14.00	lunch	
14.00-14.45	Clean hydrogen for clean ammonia	Tim Hilbers - Yara Clean Ammonia
14.45-15.30	Integration of Hydrogen-based technologies onboard of Green Cruise vessels tbd	Enrico Bigi - Fincantieri
15.30-16.00	Hydrogen Valley	Paolo Deiana - ENEA
16:00-17:00	Interactive session	tbc- ENEA, AIDIC, University of Rome La Sapienza
17.00-18.00	Laboratory technical tour	Alberto Giaconia, Vincenzo Barbarossa - ENEA
18:00-22:00	Social programme	

23 Sep 2022 - Day 3

Time	Topic	Lecture
9.00-9.45	Hard to abate applications	Andrea Pisano - ENI
9.45-10.10	The National Electrolizers Gigafactory	Luca Rofi /ANSALDO
10.10-10.30	Technology development for high temperature electrolyzers	Dario Montinaro /SOLID POWER
10.30-10.45	Coffee break	
10:45-11:30	MIRAI- The Hydrogen car test drive	Andrea Saccone - Toyota

11.30-12.15	Hydrogen, a fuel for the future	Andrea Saccone - Toyota
12:15:13:00	Hydrogen propulsion systems	Romualdo Ruotolo - Punch Hydrocells
13.00-14.0	lunch	
14.00-14.30	Hydrogen trains	Santangelo Giuseppe - Alstom
14.30-15.00	Hydrogen trucks	Alessandro Bernardini - IVECO
15.00-16.15	Interactive session. HSE design for H2	Pierpaolo Gnisci, Domenico Macrì -Techfem
16.15-16.45	Intercative session presentation	Student
16.45-17.15	Close-out and certificates distribution	Claudia Bassano - ENEA; Paolo de Filippis - University of Rome La Sapienza