

Methane Cracking for Hydrogen and Carbon Production: Research Challenges and Industrial Perspectives

Methane cracking can support a sustainable energy transition by producing CO₂-free hydrogen and high-value solid carbon—though the technology is still not mature.

7 luglio 2025,

Sala degli affreschi
Via Eudossiana 18
Sapienza Università di Roma

E' possibile partecipare all'evento
anche online al link:
<https://uniroma1.zoom.us/j/9870069346>

Programma:

10.30-11:00: opening

Prof. Paolo De Filippis-saluti istituzionali e presentazione NEST
Prof.ssa Benedetta de Caprariis-presentazione progetto HAMMER
PRIN PNRR 2022

11:00-11:40: Chemistry of pyrolysis of (waste) hydrocarbon streams in the energy transition: carbon upcycling and hydrogen production

Prof. Matteo Pelucchi, POLIMI

11.40-12:20: Methane pyrolysis: a journey on catalytic materials, deactivation, and strategies for possible reuse

Prof. ssa Gabriella Garbarino, UNIGE

12 20-13:00: Tracking Carbon Nanoparticles in Reactive Flows: From Nucleation to Growth

Prof. Mario Commodo CNR-STEMS

13:00-14:00: pausa pranzo

14:00-14:40: Decoding the behavior of pyrolysis reactors through detailed Computational Fluid Dynamics simulations

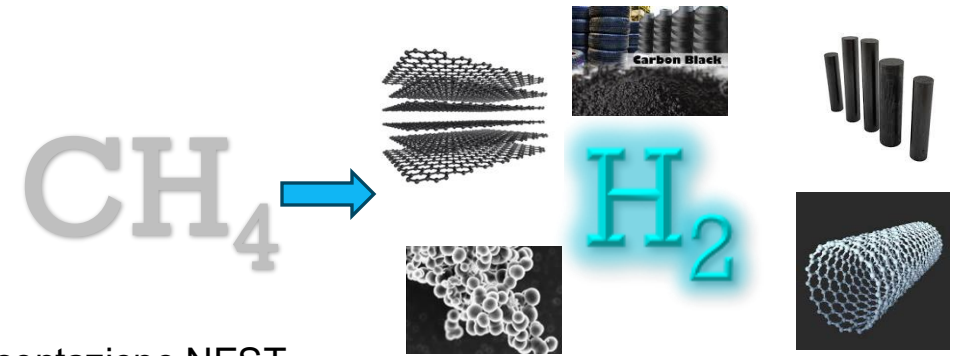
Prof. Mauro Bracconi, POLIMI

14.40: 15:20: Methane cracking Industrial prespectives

NextChem, Ing. Vittoria Cosentino

15:20-16:00: Tavolo rotonda, Methane Cracking: Real Prospects for Clean Hydrogen and Carbon

moderatore Ing. Gaetano Iaquaniello (AIDIC)



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