



UNIVERSITÉ
LIBRE
DE BRUXELLES

International workshop

The role of renewable synthetic fuels and combustion technologies in the energy transition

University Foundation, May 5th-6th, 2022, Brussels, Belgium.

On the occasion of the *Chaire Jaumotte*, awarded to Prof. Heinz Pitsch from Université libre de Bruxelles and the Belgian Royal Academy of Sciences.

Invited speakers

Prof. Antonio Attili, The University of Edinburgh

Thermo-diffusive instabilities in H₂/CH₄ blends



Prof. Abhishek Khetan, RWTH Aachen University

Exhaust gas catalysis: A modelling perspective



Prof. Liming Cai, Tongji University

AI-designed synthetic fuels and their kinetic model development



Prof. Perrine Pepiot, Cornell University

Automatic reduction strategies for combustion chemistry modelling - Perspectives and Outlook



Prof. Bassam Dally, KAUST

E-Fuels Adaptation to Industry



Prof. Mani Sarathy, KAUST

Techno-economic challenges in the e-fuel economy



Prof. Tiziano Faravelli, Politecnico di Milano

Soot in the time of Energy Transition



Dr. Werner Willems, Ford Research & Innovation Center

Pathways to Carbon Neutrality in Transport and beyond



Thursday, May 5th 2022

12:00	Registration and lunch	
13:40	Welcome	<i>Alessandro Parente</i>
14:00-15:00	E-Fuels adaptation to industry	<i>Bassam Dally</i>
15:00-16:00	Pathways to carbon neutrality in transport and beyond	<i>Werner Willems</i>
16:00-16:30	Coffee break	
16:30-17:30	Soot in the time of Energy Transition	<i>Tiziano Faravelli</i>
17:30-18:30	Exhaust gas catalysis: A modelling perspective	<i>Abhishek Khetan</i>

Friday, May 6th 2022

08:00-8:30	Registration	
08:30-09:30	Techno-economic challenges in the e-fuel economy	<i>Mani Sarathy</i>
09:30-10:30	What if we switch from natural gas to hydrogen? The challenge of flame instability in hydrogen combustion	<i>Antonio Attili</i>
10:30-11:00	Coffee break	
11:00-12:00	AI-designed synthetic fuels and their kinetic model development	<i>Liming Cai</i>
12:00-13:00	Automatic reduction strategies for combustion chemistry modelling: perspectives and outlook	<i>Perrine Pepiot</i>
13:00-14:00	Lunch and Farewell	

Registration

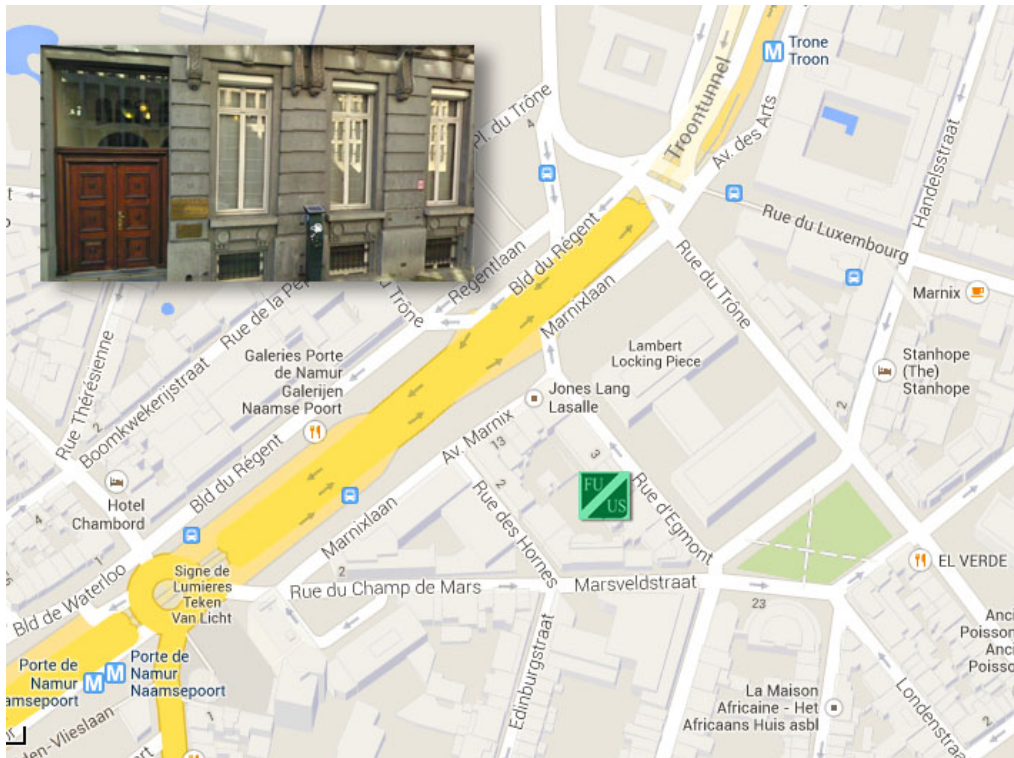


Participation is free of charge upon registration.
Posters from students and researchers are welcome.

Contact: Alessandro Parente **Email:** Alessandro.Parente@ulb.be

Phone: +32 2 650 26 73

Directions



Dates:
May 5th-6th, 2022

Place:
University Foundation
Rue d'Egmont 11 - 1000 Brussels

Directions:
The University Foundation is located between two underground stations (Troon and Porte de Namur).