




CIRCULAIR FIRST SUMMER SCHOOL

 16 – 18 September 2024

 **Aalborg University, Department of Energy (AAU Energy)**
Pontoppidanstræde 111
9220 Aalborg East (Denmark)



 The Summer School is addressed to Ph.D. students, researchers and professionals in the field of biofuels production, and particularly sustainable aviation fuels.



Look out the updates on the event on our website and LinkedIn:



 [Event page](#)

 www.project-circulair.eu

 [@circulair](#)

CIRCULAIR SUMMER SCHOOL AIMS

The Summer School introduces to the CIRCULAIR project aims:

- Develop and demonstrate a **cost-effective pathway to biofuel production** from **abundant feedstock**
- Produce a **high share of on-specification jet fuel** from **HTL biocrudes**
- Nearly-complete **biomass utilisation** by coupling with **green hydrogen**
- Enable negative contributions to the **GHG balance of HTL fuel production**

Senior scientists, industry partners, and guest speakers contribute lectures on all important aspects of the CIRCULAIR project implementation and related focus topics. **A comprehensive program of technical visits, including Aalborg University labs and a tour to Aarhus University HTL pilot plant (in Foulum)**, will provide concrete examples on how the biomass to jet-fuel conversion via HTL can be physically established.

LEARNING OBJECTIVES

Summer School will:

- Teach the **fundamentals of HTL**
- Present the latest advancement in **sustainable aviation fuel production from HTL** and the requirements towards its **commercialization**
- Show innovative technologies to valorize **HTL side streams** (gases, aqueous phase and solid char)
- Present the experiences of **commercial partners in the field**

WHO WILL SUPERVISE THE SUMMER SCHOOL?



Daniele Castello
(dac@energy.aau.dk)

Anna Miltersen
(ami@energy.aau.dk)

Participation: a fee of 100€ is requested to cover general costs.
Registration is mandatory.

 To sign up, please use the following form:

[SIGN UP](#)



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PRELIMINARY PROGRAMME

MONDAY, 16 SEPTEMBER 2024			
9:00	10:00	Decarbonizing aviation	Valentin Batteiger Bauhaus Luftfahrt, Germany
10:00	12:00	Fundamentals of hydrothermal liquefaction	Aalborg University, Denmark
12:00	13:00	Lunch	
13:00	14:00	1-minute introduction by participating students	All students
14:00	15:00	A perspective on HTL scale-up	Ib Johannsen Circlia Nordic, Denmark
15:00	16:00	Management of HTL solids	University of Hohenheim, Germany
TUESDAY, 17 SEPTEMBER 2024			
9:00	10:00	Upgrading of bio-oils	Linda Sandström RISE, Sweden
10:00	11:00	Hydrotreating: a company perspective	Jostein Gabrielsen Topsoe A/S, Denmark
11:00	12:00	Analytics for HTL	Stefano Chiaberge ENI S.p.A., Italy
12:00	13:00	Lunch	
13:00	14:00	Bus transfer to Aarhus University, Foulum	
14:00	15:00	Integrating HTL and wet oxidation	Patrick Biller Aarhus University, Denmark
15:00	17:00	Visit of Foulum labs and Circlia Nordic	
17:00	18:00	Bus transfer to Aalborg	
18:00		Dinner	
WEDNESDAY, 18 SEPTEMBER 2024			
9:00	10:00	Carbon capture from HTL	Complutense University of Madrid, Spain
10:00	11:00	Converting CO₂ to methanol	Aalborg University, Denmark
11:00	12:00	Using methanol in the shipping industry	To be confirmed
12:00	13:00	Lunch	
13:00	14:00	System modelling for HTL	Leonard Moser Bauhaus Luftfahrt, Germany
14:00	15:00	From HTL to jet-fuel	Daniele Castello Aalborg University, Denmark
15:00	16:00	Visit of Aalborg University labs	



PREREQUISITES AND ORGANIZATION ASPECTS:

General knowledge about basic concepts in chemistry and chemical engineering is preferred. A request for ECTS accreditation will be issued.

ANY QUESTIONS?

Feel free to get in touch with us at:

✉ contact@circulair-project.eu



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