

14th Concawe Symposium

Carbon-neutrality by 2050: What role for the refining industry?

27-28 September 2021



DAY 1

September 27, 2021

Moderator: Alain Mathuren, Concawe

10:00 – 10:10 *Welcome & Opening Remarks:* Jean-Marc Sohier, Concawe

10:10 – 10:30 *Keynote Speech:* Luis Cabra, Concawe

Session 1: Adaptation of refineries to contribute to the Green Deal: Technologies

Thermochemical biofuel conversion processes: Overview & innovative approaches : David Chiaramonti, Polytechnic University of Turin

Biomass-to-Liquid technologies: Status of recent developments & challenges : Jiří Hájek, ORLEN UniCRE

Coffee Break

Waste-to-Chemicals: A new concept of biorefinery : Giacomo Rispoli, NextChem

Advanced biofuels from refinery processing of fast pyrolysis bio-oil : Tijs Lammens, BTG Bioliquids

10:30 – 12:10

12:10 – 12:40

Q&As / Panel discussion with the participation of
Marta Yugo, *Concawe*

Session 2: Carbon Capture & Utilisation (e-Fuels) & Circular Economy

A look into waste to fuels supply chains: From
feedstocks to final products

Chris Sim, *E4tech*

ProcessForPlanet (HorizonEurope): CCU,
waste minimisation and hubs for circularity

Ludo Diels, *A.SPIRE*

E-Fuels: A techno-economic assessment of EU
domestic production and imports towards 2050

Alba Soler & Patrick Schmidt,
Concawe / LBST

Coffee Break

Power-to-Liquids

Alfonso García, *Repsol*

Co-processing for refinery integration
of biofuels production

Duncan Akporiaye, *SINTEF*

15:00 – 17:00

17:00 – 17:30

Q&As / Panel discussion with the participation of
Tamour Javed, *Aramco*

DAY 2

September 28, 2021

Moderator: Alain Mathuren, *Concawe*

10:00 – 10:10 Introduction

Session 3: Focus on Aviation and Maritime

Aviation Deep Dive: Overview and
preliminary results

Luca Bertuccioli, *E4tech*

Towards a sustainable aviation sector:
Key R&D areas

Stephen Dooley, *Trinity College Dublin*

Coffee Break

Technological, operational and energy
pathways for maritime transport to
reduce emissions towards 2050

Tim Scarbrough, *Ricardo*

Maritime energy transition: Alternative
energy carriers and beyond

Jurrit Bergsma, *TNO*

10:10 – 11:50

11:50 – 12:20 Q&As / Panel discussion with the participation of
Damien Valdenaire, *Concawe*

Session 4: Alternative Fuels towards 2050

Alternative fuels development
for diesel engines

Robert McCormick, *National
Renewable Energy Laboratory*

Sustainable energies and powertrains
for road transport

Roland Dauphin, *Concawe*

15:00 – 16:40

Coffee Break

Sustainable bio-feedstock availability in the EU:
A look into different scenarios towards 2050

Calliope Panoutsou, *Imperial College London*

LCA analysis – Role of fuels & powertrains

Anne Bouter, *IFPEN*

16:40 – 17:10 Q&As / Panel discussion

17:10 – 17:20 Wrap-up of the Symposium with the participation of
Jean-Marc Sohier, *Concawe* and John Cooper, *Concawe*

