Novel intensified processes for CO_2 capture and conversion to methanol

$CO_2$²MeOH

"Developments in Carbon Capture and Utilization Technologies"

Virtual Workshop, Wednesday 01 December 2021, 10:00 – 13:00 (EET)

Web-place: https://certh.webex.com/certh/j.php?MTID=m0e5301382028ddb054ff98e2460208d7

10:00–10:15 **Overview of the $CO_2$²MeOH project**
Professor Angeliki Lemonidou, AUTH, Greece

10:15–10:45 **The World's largest open access post-combustion CO_2 capture deployment test centre**
Dr Christina Martavaltzi, Technology Centre Mongstad (seconded from Shell), Norway

10:45–11:15 **An update on CO_2 to methanol at Air Liquide**
Dr Stephane Haag, Air Liquide, Germany

11:15–11:30 **CO_2 capture via carbonate looping of CaO- and MgO-based sorbents derived from mineral ores and industrial wastes**
Mr Thodoris Papalas, AUTH, Greece

11:30–11:45 **Study of perovskite materials for the preparation of dual phase membranes for CO_2 separation**
Ms Charitini Matsouka, LIM/CERTH, Greece

11:45–12:00 **Sorption enhanced CO_2 hydrogenation to methanol: challenges and opportunities**
Ms Vasiliki Koidi, CPERI/CERTH, Greece

12:00–12:15 **Simulating the Plug Flow Reactor for Methanol production in CFD**
Mr Arsenios Chatzimichailidis, SIMTEC SA, Greece

12:15–12:30 **Design and feasibility assessment of a novel concept for capture and utilization of CO_2 towards methanol production in cement industry**
Dr Andy Antzara, AUTH, Greece

12:30–13:00 **Discussion**

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ΕΠΑνΕΚ 2014-2020
OPERATIONAL PROGRAMME
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INNOVATION

ΕΣΠΑ 2014-2020
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