

# ***Novel intensified processes for CO<sub>2</sub> capture and conversion to methanol***



**“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<sub>2</sub><sup>2</sup>MeOH project**  
Professor Angeliki Lemonidou, AUTH, Greece
  
- 10:15–10:45**    **The World’s largest open access post-combustion CO<sub>2</sub> capture deployment test centre**  
Dr Christina Martavaltzi, Technology Centre Mongstad (seconded from Shell), Norway
  
- 10:45–11:15**    **An update on CO<sub>2</sub> to methanol at Air Liquide**  
Dr Stephane Haag, Air Liquide, Germany
  
- 11:15–11:30**    **CO<sub>2</sub> 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<sub>2</sub> separation**  
Ms Charitini Matsouka, LIM/CERTH, Greece
  
- 11:45–12:00**    **Sorption enhanced CO<sub>2</sub> 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<sub>2</sub> towards methanol production in cement industry**  
Dr Andy Antzara, AUTH, Greece
  
- 12:30–13:00**    **Discussion**

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