



28 September
2021

The seminar and the workshop will be held **online** due to the COVID-19 risks



CO₂Oling the Earth Summer School - 3rd Edition -

This PhD school focuses on all aspects of Sustainable Industry, with a focus on Carbon dioxide Capture and Utilization (CCU) and on Electrochemistry.



Aim of the PhD school

Is it possible to scale up the system I studied during my PhD?

What are the criticalities to scale up a research project from the lab bench to prototyping and to the further possible industrialization?

The aim is to give a perspective on how a process is defined as sustainable and scalable, and give to the participants the tools to assess the scalability and feasibility of their project on a larger scale.

The PhD school will last one day and will consist of a session with presentations from industrial partners, mainly from EU H2020 projects on CCU, followed by a workshop in which PhD students will have the chance to present their research and receive feedback and suggestions from an industrial panel on the upscalability of their work



Industrial Panel

- ◇ Dr. Sorani Montenegro (HySyTech srl)
- ◇ Dr. Julia Krasovic (Avantium)
- ◇ Dr. Bart van den Bosch (Avantium)
- ◇ Dr. Vasileios K. Michalis (TITAN Cement Co)
- ◇ Dr. Boyan Iliev (IoLiTec)
- ◇ Dr. Sara Cavaliere (CNRS)

Projects



Organizers



Politecnico di Torino

CO₂Oling the Earth Summer School

- 3rd Edition -



Presentation session

8 presentations by industrial experts,
each of 25 min + 5 min Q&A



PhD Workshop

6 presentations by PhD students,
each of 15 min followed by 10 min
feedback session with the industrial
panel

Time	Session title	Speakers(s)
9.00 - 9.15	Welcome & introduction to the summer school	
9.15 - 9.45	Accelerating innovation in CCU technologies: the role of industrial pilot scale demonstrations	Dr. Vasileios K. Michalis (TITAN Cement Co)
9.45 - 10.15	To be defined	Dr. Sorani Montenegro (HySyTech srl)
10.15 - 10.30	Coffee break	
10.30 - 11.00	Membrane-based Post-combustion Carbon Capture and Storage	Dr. George Skevis (CERTH)
11.00 - 11.30	Amine based post combustion capture plants	Dr. Sandra Schmidt (Project manager at RWE power AG)
11.30 - 12.00	Ionic Liquids - novel media for CO ₂ absorption and conversion	Dr. Boyan Iliev (IoLiTec)
12.00 - 13.00	Lunch	
13.00 - 13.30	Advanced alkaline electrolysis: from laboratory to GW scale	Dr. Thijs de Groot (Innovation Technologist at Nobian & Assistant professor at TU/e)
13.30 - 14.20	RECODE and OCEAN: challenges and strategies for scaling up electrochemical CO ₂ conversion processes, New technologies for the electrochemical production of CO from CO ₂	Dr. Mariana Araujo and Dr. Bart van den Bosch (Avantium)
14.20 - 14.40	Coffee break	
14.40 - 18.00	Workshop: scale up your project!	Industrial Panel

Scan the QR-code for registration or copy this link on your browser: <https://co2olingearth.eu/>



Contact us at : organization.co2oling@iit.it