Turning Waste into Solutions: Silica-Based Sorbents for CO_2 Control

MARCH 25th 2026

SILCO Forward

Final Workshop on Circular Silica for Carbon Capture and Re-Use

Time	Speaker	Title
10:00 – 10:10	**SILCO Partnership**	Welcome & General SILCO activities presentation
10:10 – 10:50	**Prof. G. Centi** Messina University (IT)	Carbon reuse and circularity: why and are we looking at the right problems?
10:50 – 11:10		Virtual coffee break
11:10 – 11:20	**Dr. M. Di Virgilio** Politecnico of Milan (IT)	General overview and objectives
11:20 – 11:30	**Dr. L. Viganò** Milano Bicocca University (IT)	Design of waste-derived silica and CO_2 capture application
11:30 – 11:40	**Dr. S. Molina-Ramírez** Genova University (IT)	FTIR surface analysis of silica-based Dual Function Materials
11:40 – 11:50	**Ing. G. Nava** Politecnico of Milan (IT)	Performance evaluation of silica-based Dual Function Materials
11:40 – 12:05	**Dr. C. Cara** Fluorsid (IT)	Circular economy applied to fluorine chemistry
12:05 – 12:30	**Prof. N. Yullok** Oulu University (FI)	Membrane-based CO_2 capture for sustainable industrial processes
12:30 – 13:30		Virtual lunch break
13:30 – 13:55	**Prof. M. Herrera-Delgado** University of Málaga (ES)	CO_2-SR Technology. CO_2 Storage and *in situ* Regeneration with CH_4 over a novel dual function Ni-Alk unsupported catalyst
13:55 – 14:20	**Ing. A. Milani** Saint Gobin NorPro (DE)	Enhancing multi-value chain catalyst carriers revalorization: key assets and challenges
14:20 – 14:55	**Dr. S. Cimino** (STEMS-CNR) Napoli (IT)	Durability and Sulfur Tolerance of Li-Ru/Al_2O_3 Dual Function Material for the Integrated CO_2 Capture and Methanation
14:55 – 15:15	**Prof. M. Daturi** Université de Caen (FR)	Metal-Organic Frameworks as outstanding materials for CO_2 capture
15:15 – 15:25	**SILCO Partnership**	Concluding remarks

https://teams.microsoft.com/meet/33795474938744?p=mKNBepwc66yzpHm4sv
Meeting ID: 337 954 749 387 44
Passcode: hd3hh376

https://www.silco.polimi.it/

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