

EERA AMPEA 16th JPSC meeting & Workshop on “Carbon Capture, Storage & Utilization”

March 10 - 11, 2021

Zoom Platform

Day 1

Time	Topic	Presenter	Organization
09:00	Welcome and Steering Committee Meeting (separate agenda)	JPC S. Nakamae JPSC members	
Session JPCCS (Chair: M.L. Fontaine)			
09:30	Invited JP CCS - I CCUS – Recent Topics with Regard to Transport and Storage	R. Span J. Pearce	RUB – DE BGS - UK
10:00	Invited JP CCS - II From Clean Combustion to CCU: intriguing topics for process engineering and materials scientists	O. Senneca	CNR -IT
10:30	Q&A session		
10:45	Coffee break		
Session JPAMPEA II : Carbon Capture and Utilisation (Chair: R. Kiebach)			
10:55	Invited JP AMPEA Intensified catalytic conversion of CO₂ into added-value hydrocarbons	J. Serra	ITQ CSIC - ES
11:15	Advanced materials for CCUS (at the University of Bologna): from nano-membranes to electrodes for CO₂ reduction	M. Giacinti Baschetti G. Valenti	UniBo - IT
11:30	Efficient Combined CO₂ Capture and Methanation	S. Cimino	CNR- IT
11:45	Thermochemical cycles for CO₂ capture/utilization	G. Landi	CNR - IT
12:00	What would it take for renewable based electrosynthesis products to substitute those obtained from petrochemical processes?	J. Morante	IREC- ES
12:15	Q&A session		
12:30	End of first day		

Day2

Time	Topic	Presenter	
09:00	<i>Welcome</i>	<i>JPC S. Nakamae</i>	CEA - FR
Session JPAMPEA I: Materials for Carbon Capture (Chair: A. Bieberle)			
09:10	<i>Invited JP AMPEA</i> Inorganic membranes for gas separation: opportunities and challenges	M.-L. Fontaine	SINTEF -NO
09:30	Materials and Processes for Solar Energy Based Capturing and Transforming of CO ₂ and Water into Hydrocarbon Feedstock	M. Roeb	DLR - DE
09:45	Ceramic gas separation membranes for the use in CCUS	W.A. Meulenbergh	FZ Jülich - DE
10:00	Current perspectives on advanced solid sorbents for CCS: the case of hybrid metal organic framework	M. Alfé	CNR-IT
10:15	Materials selection for the CHEERS project on Chemical Looping Combustion	A. Lambert	IPFEN - FR
10:30	<i>Q&A session</i>		
10:45	<i>Coffee break</i>		
Session JPAMPEA III : Carbon Conversion and Utilisation (Chair: J. Morante)			
10:55 Session 3	<i>Invited JP AMPEA</i> Carbon Capture Utilisation : some CEA on- going works and achievements	F. Ducros	CEA - FR
11:15	<i>Invited JP AMPEA</i> KEROGREEN - A plasma-based approach for CO ₂ neutral fuel production	S. Welzel	DIFFER - NL
11:35	Engineering photosynthetic microorganisms for direct solar chemical and fuel production from carbon dioxide	P. Lindblad	Uppsala - SE
11:50	Methanation of captured carbon dioxide in a solid oxide membrane reactor	E. Ruiz	CIEMAT- ES
12:05	Rational exploration of innovative materials by quantum simulation	P. Raybaud	IFPEN - FR
12:20	Electrocatalytic CO ₂ Reduction with Copper /Carbon Catalysts to C ₂ and C ₂₊ . Value-added Products supported over Gas Diffusion Layers	S. Murcia	IREC - ES
12:35	<i>Q&A session</i>		
12:50	<i>Conclusion of the workshop</i>	<i>JPC S. Nakamae</i>	CEA - F