



INNOMEM

*First Workshop*



November 17-18, 2022

Hilton Sorrento Palace Hotel & Conference Center  
Sorrento NA, Italy

[www.innomem.eu](http://www.innomem.eu)

## Program



Institute on Membrane  
Technology  
National Research Council of Italy



MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

Program  
*November 16<sup>th</sup> – afternoon*

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<b>Time</b>		<b>Duration (min)</b>	
18:30	19:30	60	Welcome Drink & Registration

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November 17<sup>th</sup> – morning

Time	Duration (min)	Title/Speaker	Affiliation
08:30 - 09:00	30	Registration	
09:00 - 11:00	120	Session I – Chair: <i>Adele BRUNETTI</i>	
09:00 - 09:10	10	Welcome Coordinator / Host organization <i>Jon ZUNIGA/Adele BRUNETTI</i>	TECNALIA/CNR
09:10 - 09:50	40	DeltaH, a new facility for the validation of H <sub>2</sub> -related materials and components <i>Raffaele AGOSTINO</i>	University of Calabria
09:50 - 10:20	30	INNOMEM OPEN CALLS AND CATALOGUE <i>Filipa TOMÈ</i>	PNO
10:20 - 10:40	20	Palladium-based membrane plating system <i>Alba ARRATIBEL</i>	TECNALIA
10:40 - 11:00	20	Integrated membranes reactors for hydrogen separation <i>Jon MELÉNDEZ</i>	H2SITE
11:00 - 11:20	20	<b>Coffee break</b>	
11:20 - 13:00	100	Session II – Chair: Anita BUEKENHOUDT	
11:20 - 11:40	20	Development of new nanostructured hollow fiber membranes by surface modification for wastewater treatment <i>Céline CASSETTA/Jeanne CASSETTA</i>	IEM
11:40 - 12:00	20	Pilot line - Zeolite membrane fabrication <i>Hannes RICHTER</i>	FRAUNHOFER-IKTS
12:00 - 12:20	20	Showcase – Evaluation of zeolite and polymeric membranes in natural gas treatment <i>Andreas OSSMAN</i>	DBI
12:20 - 12:40	20	Pilot line - Flexible flat sheet polymeric membranes <i>Juliana CLODT</i>	HEREON
12:40 - 13:00	20	Pilot Line - Dual layer mixed matrix HF manufacturing system <i>Miren ETXEBERRIA-BENAVIDES</i>	TECNALIA
13:00 - 14:30	90	<b>Lunch</b>	

November 17<sup>th</sup> - afternoon

<b>Time</b>	<b>Duration (min)</b>	<b>Title/Speaker</b>	<b>Affiliation</b>	
14:30	16:50	140	Session III – Chair: <i>Céline POCHAT-BOHATIER</i>	
14:30	15:10	40	Membrane technologies for new sustainable and resilient solutions in the wastewater sector <i>Anna Laura EUSEBI</i>	Università Politecnica delle Marche
15:10	15:30	20	Pilot Line for Fabricating Micro-Tubular Ceramic Membranes <i>Mahesan SUBRAMANIAM</i>	IC/AU
15:30	15:50	20	In-line modification of nano-coatings on hollow fiber membranes via E-beam irradiation <i>Kyra VAN DIJK</i>	UTWENTE
15:50	16:10	20	Showcase - Functionalized polymeric HF membranes for aqueous applications <i>Dennis REURINK</i>	NXFILTRATION
16:10	16:30	20	Oriented GO and ALD modified separation membranes <i>Nikolaos KANELLOPOULOS</i>	DEMOKRITOS
16:30	16:50	20	Possible uses of membrane technology in the context of the circular economy <i>Stefano BINOTTI</i>	CURSA
16:50	18:30	<b>Coffee break &amp; Poster Session</b>		
20:00	<b>Dinner</b>		all	

November 18<sup>th</sup> - morning

Time		Duration (min)	Title/Speaker	Affiliation
09:00	11:00	120	Session IV – Chair: Joaquin CORONAS	
09:00	09:40	40	Membrane and catalytic processes: their role in the energy transition <i>Girolamo GIORDANO</i>	University of Calabria
09:40	10:00	20	VIRTUAL LAB - TESTING AND CHARACTERIZATION <i>Giuseppe BARBIERI</i>	CNR
10:00	10:20	20	VIRTUAL LAB - MODELLING <i>Zançat SAHIN</i>	TUE
10:20	10:40	20	Pilot Line - Roll-to-Roll Coating of Advanced Nanophase-Segregated Ion-Exchange Polymer Membranes+Showcase – Anion-Conducting Membranes for Energy Applications <i>Lukas FISCHER</i>	UDE
10:40	11:00	20	Pilot line - Grafting of Ceramic Membranes <i>Anita BUEKENHOUDT</i>	VITO
11:00	11:30	30	<b>Coffee break</b>	
11:30	12:50	90	Session V – Chair: Giuseppe BARBIERI	
11:30	11:50	20	Modifications of hollow fibers by microfluidics <i>Joaquin CORONAS</i>	UNIZAR
11:50	12:10	20	Hollow fiber membrane spinning with improved geometric features <i>Maria RESTREPO</i>	RWTH
12:10	12:30	20	Showcase – Polymeric HF membranes with for ultra- and microfiltration <i>Daniel KNAUT</i>	RWTH/FILATECH
12:30	12:50	20	Methods of manufacturing hollow fiber modules <i>Krzysztof TRZASKUŚ</i>	MESEP
12:50	13:00	10	Remarks, conclusions, and final greetings	TECNALIA/CNR
13:00	14:00	60	<b>Lunch</b>	